

MINISTRY OF PUBLIC HEALTH, EGYPT



# ANNUAL REPORT

ON THE WORK OF THE

# Ministry of Public Health

for the Year 1950

GOVERNMENT PRESS, CAIRO, 1955

Government Publications are on sale at the "Sale Room" Ministry of Finance and Economy. Correspondence relating to these publications should be addressed to the "Publications Office", Government Press, Cairo.

Price - - P.T. 315





MINISTRY OF PUBLIC HEALTH, EGYPT

# ANNUAL REPORT

ON THE WORK OF THE

# Ministry of Public Health

for the Year 1950

GOVERNMENT PRESS, CAIRO, 1955

Government Publications are on sale at the "Sale Room" Ministry of Finance and Economy. Correspondence relating to these publications should be addressed to the "Publications Office", Government Press, Cairo.

Price - - - - - - P.T. 315

## CONTENTS

## Part I. - PUBLIC HEALTH

Chapter	I.— Vital Statistics	- 0.0	1
, ,,	II.— Infectious Diseases		16
,,	III.— Frontier Districts Medical Service		
<b>3</b> )	IV.— Nutrition		
,,	V.— Permits		
"	VI.— Rural Health		
**	VII.— Quarantine		74
22	VIII.— Food Control		
	Part II. — SOCIAL HYGIENE		
Chapter	IX.— Maternity and Child Welfare		96
,,	X.— Chest Diseases		
,,	XI.— Venereal and Skin Diseases		
,,	XII.— Mental Health		
,,	XIII.— Health Education and Social Services		
	Part III.— TREATMENT		
	Part III.— IREAIMENI		
Chapter	XIV.— General Hospitals	• • • •	141
•	XV.— Ophthalmic Hospitals		147
<b>»</b> >	XVI Pharmacies		149
"	XVII.— Universities Hospitals		150
	Part IV.— ENDEMIC DISEASES		
	Part IV.— ENDEMIC DISEASES		
Chapter 1	VIII.— Ancylostoma and Bilharzia Treatment	1	152
,,	XIX.— Malaria	1	.57
,,	XX.— Insects Control	1	80
	XXI.— Bilharzia Snail Control		
,,	XII.— Leprosy Control	1	96
	·		
	Part V.— RESEARCHES AND LABORATORY EXAMINATIONS		
ChapterX	XIII Summary of the Work of the Department of Laboratories	2	206
Х	XIV.— Summary of the Work of the Research Institute for Tropical Diseases	2	207
	XV.— Summary of the Work of the Memorial Ophthalmic Laboratory, Giza	2	11
, i			
	Part VI.— APPENDICES		
Appendix	I.— Medical Permits	2	12
,,	II Medical Commissions	4	LU
,,	III Central Stores	2	20
"	IV - Budget Credits and Details of Posts	4	د د
33	V International Health	22	1.)
,,	Vr Summery of Report on the State of Public Health in Alexandria	26	43
	VI.— Summary of Report of the	95	2.1
>>	VII.— Report on the Work of Cairo City Health Department	23	31



## MINISTRY OF PUBLIC HEALTH

# ANNUAL REPORT FOR THE YEAR 1950

#### Part I.—PUBLIC HEALTH

### Chapter I.—Vital Statistics

#### A. Population:

The estimated population of Egypt in mid-year 1950 totalled 20,392,600,i.e. an increase of 408,000 inhabitants over 1949. This increase represents an average increase of 20/o per year of the Egyptian population, which is very high and calls for some urgent measures.

Table No. 1 gives the age and sex distribution of the whole population and ratio of each age group per thousand of the population. Two facts are evident, namely that the ratios for age groups up to thirty years are high and those for age groups over that age are low. The former indicates that the Egyptian population is young. The latter indicates that the average age on death is relatively young, which means that more efforts in the field of health are needed.

#### B. Births:

The total number of births for all Egypt during the year was 904,941 or 44.4 per thousand of population as against 41 9 in 1949. Table No. 2 shows that the 1950 birth rate is the highest since the outbreak of World War II. It may be explained by the economic progress that marked the war period and subsequent years and the resulting increase in marriages during the quiet times that followed the end of hostilities. On the whole, the birth-rate in Egypt is very high when compared with rates of other countries. It is, in fact, one of the highest throughout the world. During the past ten years, the birth-rate varied between 38.2 in 1942 and 44.4 in 1950.

The highest birth rate of 64.4 per thousand of population was recorded in Suez. The lowest, 29 per thousand, was recorded in Qena Province. It is presumed that the low birth-rates in Qena and most Upper Egypt Provinces are due to men's migration in search of livelihood elsewhere (Table No. 7).

Table No. 4 shows that February marks the highest birth rate of 50.1 per thousand and September marks the lowest rate of 39.8. Again, this table shows that males predominate, being a hundred to every 91.7 females.

#### C. Deaths:

A total of 388,944 deaths were reported throughout Egypt during the year under review, or a death-rate of 19.1 per thousand of population, as against 20.6 in 1949.

According to table No. 2, the 1950 death-rate was the lowest during the past ten years. It will be also observed that the average deaths are fewer year after year.

The highest death-rate of 26 per thousand of population was also recorded in Suez; the lowest, 11.4, was in Qena (Table No. 7). It is suggested that the low death rates in Qena and most Upper Egypt provinces are due to failure in reporting deaths. The high death rate at Suez is again the result of migration of Upper Egyptians seeking work with oil refineries, and chemical and other industries. Table No. 3 shows that the highest death rate of 22.8 per thousand of population was recorded during the third quarter; the lowest, 16.3, was recorded during the first quarter.

#### D. Age and Sex Distribution of Deaths:

Table No. 8 gives the age and sex distribution of deaths. It shows that more than half the deaths, 56 % of total deaths, occur within the first five years of life. It is of interest to know that the decrease in 1950 deaths as compared with the 1949 deaths is manifest in all age groups except the over 80 years age group.

It will be also observed that the male death rate is higher than the female, being 877 female deaths to a thousand males. Again, this is common in all age groups except the 85 years age group.

#### E. Infantile Mortality:

The total number of infantile deaths in all Egypt was 117,283 or a ratio of 130 per thousand live births as against a ratio of 135 in 1949.

In localities having health offices, 69,446 infantile deaths were recorded with a ratio of 170.8 per thousand live births. The ratio was 174.7 in the previous year.

Table No. 9 shows that diarrhoea and enteritis continue to be the main causes of infantile deaths. Congenital debility comes next in importance.

Table No. 10 gives details of infantile deaths in localities having health offices distributed according to age groups and causes of death. According to this table, more than one fifth of the deaths occur within the first month of life. 85% of these were due to congenital debility. After the first month, diarrhoea and enteritis play the first role in infantile deaths. Table No. 6 a shows that the highest infantile mortality rate during the year, 175, was recorded in the Governorates, the lowest, 111, was in Lower Egypt provinces. It was 126 in Upper Egypt provinces.

#### F. Still Births:

The still birth rate for all Egypt was 6.9 per thousand births. This was 16.7 in the Governorates, 4.1 in Lower Egypt provinces and 4.3 in Upper Egypt provinces as against 7, 17, 4.3 and 4.1 respectively in the previous year. The higher rate in the governorates may be explained by a more accurate reporting than in the provinces.

TABLE NO. 1.—ESTIMATED POPULATION BY AGE AND SEX IN 1950, AND PROPORTION PER 100,000 AT ALL AGES

				Age g	<b>-0</b> ho							Population		Proportion
				ago g	rou ps						Males.	Females	TOTAL	per 100,000 of total groups
0-4	years	•				• • •					1 979 000	000 006		
<b>5</b> –9	<b>3</b> 1						•••	• • •	* * *	4 4 0	1,378,900			
10-14			•••	•••		•••	•••	• , •	* * *		1,302,700			126.5
15-19	"	•••	•••	•••	•••	•••	•••	• • •	• • •	* * *	1,231,100			116.7
20-24	,,	•••	•••	•••	•••	• • •	•••	• • •	• • •	• • •	1,060,400			100.3
	,,	•••	•••	•••	•••		• • •	• • •	** * *	• • •	730,400			73.0
<b>25–2</b> 9	"		•••	• • •	• • •	•••	• • •	•••	* • •	***	739,000		1,582,700	77.6
<b>3</b> 0 <b>–3</b> 4	**	•••	•••		•••	• • •	• • •	•••		• • •	668,200	739,700	1,487,990	69.0
<b>35–3</b> 9	,,	•••	•••	•••	•••	• • •	::		• • •	• • •	710,500	701,200	1,411,700	69.3
40-44	**		•••	•••	•••	•••		• • •	• • •	• • •	613, <b>3</b> 00	607,500	1,22),800	59 9
45-49		•••	•••	•••		•••	•••	• • •	•••	•••	461,800	445,400	997,230	44.5
50-54	,,	•••	•••		•••		•••	•••		• • • •	4 <b>5</b> 3,900	481,100	935,000	45.8
<b>55-5</b> 9	,,	•••	•••	•••	•••		•••		• • •	• • •	184,400	185,700	370,100	18.1
60-64	,,	•••	•••	•••		•••	•••	•••	•••	•••	<b>27</b> 1,600	320,500	592,100	29.0
<b>65-6</b> 9	,,	•••	•••	•••	•••	•••	• • •	•••	• • •	•••	90,300	88,100	178,400	8.7
70-74	,,,	•••	•••	•••	•••	•••	•••	• • •	•••	•••	116,200	146,700	262,930	<b>12</b> ·9
<b>75–</b> 79		•••	•••	•••	•••	•••	•••	• • •	•••	• • •	25,300	25,800	51,100	2.5
80-84	9 >	•••	•••	•••	•••	• • •	• • •	•••	•••	• • •	37,500	56,500	94,000	4.6
85 yea	rs and	over	•••		•••	•••	• • •	•••	•••	•••	18,600	<b>2</b> 5,200	43,800	<b>3</b> 1
Not st	ated	•••	••	•••	•••	•••	•••	•••	•••	• • •	27,050	35,700	62,709	3.1
							Tor	TAL						
							10		•••	•••	10, 121, 100	10,271,500	20,392,600	***************************************
		•									1	<u> </u>		

TABLE No. 2.—BIRTHS, DEATHS AND RATES PER 1,000 OF POPULATION AND INFANTILE MORTALITY-RATE 1939-1950

		Ye	ar				Births	Deaths	Natural Increase	Birth-rate per 1,000 pop.	Death rate per 1,000 pop.	Inf. Mortality rate per 1,000 births
1939	• • •	•••	•••		•••		<b>6</b> 96, <b>7</b> 46	429,033	267, <b>7</b> 13	42.2	· 2 <b>6</b> ·0	161
1940	•••	•••	•••	•••	•••	• • •	697,700					
1941		•••	•••	• • •	•••	• • •	695,016	440,981	254,035	40.8	25.9	150
1942		•••		• • •	• • •	• • •	658,324	494,358	163,966	38.2	- 28.7	168
1943		• • •	•••		•••	•••	689,771	492,644	197,127	39.6	28:3	160
1944	•••	•••	•••	•••	•••	•••	722,166	472,234	249,932	41.0	26 · 8	152
1945	•••	•••	•••	•••	•••	•••	787,502	512,003	275,499	43.9	28 · 6	153
1946	•••	•••	•••	•••	• • •	• • •	774,152	469,382	304,770	42.6	25.8	. 141
1947	•••		•••	•••	• • •	• • •	834,557	408,577	425,980	43.5	21 · 3	127
1948	•••	•••	•••	•••	•••	•••	832,728	397,976	434,752	42.5	20.3	139
<b>19</b> 49	•••	•••	•••	•••	• • •	• • •	836,516	410,524	425,992	41.9	20.6	135
1950	•••	•••	• • •	•••	•••	•••	904,941	388,944	515,997	44.4	19•1	130

TABLE No. 3.--QUARTERLY DISTRIBUTION OF DEATHS AND DEATH-RATES PER 1,000 OF POPULATION FOR ALL EGYPT 1941-1950

																The second second			
					Male Deaths	eaths			Female Deaths	Deaths		T	tal Numbe	Total Number of Deaths		Anz	Annual Death-Rates persons livin	per	1,000
	Years		,	-	Quarter	r ended			Quarter ended	ended			Quarter ended	pepue .			Quarte	Quarter ended	
,				March	June	September	December	March	June	September   ]	December	March	June	September	December	. March	June	September   December	December
1941	:		:	48,979	63,062	68,650	58,503	40,231	59,768	59,361	47,427	89,210	117,830	128,011	105,930	21.2	27.8	8.63.	24.7
1942	•	•	•	57,024	78,544	10,071	62,740	47,208	68, 590	51,874	50,307	104,232	147,134	129,945	113,047	24.5	34.3	29.9	26.0
1943	*	•	•	58,690	69,137	71,461	70,096	47,015	58,712	61,239	56,294	105,705	127,849	132,700	126,390	24.6	29.4	30.2	28.8
1944	d	•	•	61,059	69,029	70,457	57,025	48,733	59,308	60,175	46,448	109,793	128,337	130,632	103,473	25.0	29.5	29.4	23.3
1945	•	*	•	55,687	7 69,307	85,914	66,032	44,935	60,612	75,509	54,007	100,622	129,919	161,423	120,039	22.8	29•1	35.7	56.6
1946	•	•	•	71,014	4 72,047	64,521	53,089	51,415	61,661	55,845	44,790	117,429	133,708	120,366	97,879	26.3	31.3	26.3	21.4
1947	:	•	•	43,030	0 49,577	60,302	67,938	35,468	42,657	52,105	57,500	78,498	92,234	112,407	125,438	9.91	19.3	23.3	0.97
1948	:			. 42,411	1 52,638	969,696	50,473	36,494	47,616	60,151	41,497	78,905	100,254	126,847	91,970	16.2	20.6	25.6	18.6
6761	:	:	:	. 48,324	4 62,098	3 63,321	44,358	41,159	56,776	56,896	37,592	89,483	118.874	120,217	81,950	18.2	23.9	23.9	16.3
1950	:	:	:	. 44,189	9 51,675	5 61,568	49,732	37,474	45,958	55,705	42,643	81,663	97,633	117,273	92,375	16.3	19.2	22.8	18.0
			-																And the second s

TABLE No. 4.--MONTHLY DISTRIBUTION OF BIRTHS AND DEATHS AND RATES PER 1,000 OF POPULATION, EGYPT, 1950

Mon	41.				Births		Birth		Deaths		Death
Mon	un			Males	Females	TOTAL	rate per 1000 pop.	Males	Females	TOTAL	rate per 1,000 pop.
	•									0	
January		• • •		45,081	39,951	85,032	49.1	15,846	13,483	29,329	16.9
February	• • •	• • •		40,688	37,696	78,384	50 1	14,218	11,988	26,206	16.8
March		•••	• • •	42,704	39,091	81,795	47:3	14,125	12,003	26,128	15.1
April	• • •	• . •	• • •	39,677	36,651	76,328	45.6	15,298	13,194	28,492	17 · 0
May	• •	• •	• • •	36,968	33,792	70,760	40.9	17,571	15,675	33,246	19.2
June	•••	• • •	• • •	36,561	33,029	69,590	41.5	18,806	17,089	35;895	21 · 4
July	• • •	• • •	• • •	39,895	36,498	76,393	44.1	22,313	20,553	42,866	<b>24</b> ·8
August	• • •	•••	• • •	38,806	35,566	74,372	43 0	21,548	19,613	41,161	<b>2</b> 3 · 8
September	• • •	•••	• • •	34,849	31,772	66,621	39.8	17,707	15,539	33,246	19.8
October			* * •	39,006	35,447	74,453	43.0	17,400	14,923	32,323	18 7
November	•	• • •		36,838	34,303	71, 141	42.5	15,845	13,508	29,353	17.5
December	• • •	•••	• • •	41,104	38,968	80,072	46.3	16,487	14,212	30,699	17.7
Tor	'AI.			472,177	432,761	904,941	44.4	207,164	181,780	388,944	19·1

TABLE No. 5.—MONTHLY DEATH-RATES PER 1,00 POPULATION

Month	1941	1942	1943	1944	1945	1946	1947	£948	1949	1950
January	<b>33</b> ·3	24.6	26.0	28.0	23 · 6	25.8	19.0	15.9	18.9	16.9
February	19.1	24.1	21 · 7	23.3	20.9	24.5	15.9	16.4	18.5	16.8
March	20.6	23.8	25.1	23.4	22.8	27.3	14.8	16.2	17.3	15.1
April	22.6	27.8	26.0	<b>25</b> · 3	21.9	27 · 1	16.3	15.4	18.4	17.0
Мау	29.4	34 · 2	30.3	29 · 2	29·1	30 · 3	18.8	20.0	24 · 4	19.2
June	31 · 1	39.5	31-8	32.8	36.1	30.9	22.9	26 · 2	28.9	21.4
July	32.3	33.9	33.8	33.7	39.1	29.0	25.5	27.4	27 · 2	<b>24</b> · 8
August	31.8	28 1	31.3	29.9	37.3	26.5	23.3	27 · 0	24.7	23.8
September	26.1	24.8	26.3	25.2	31.5	24 · 1	21.0	22.7	19.7	19.8
October	24.7	25 · 1	29.5	24 · 3	27 · 7	22.6	38:2	19.2	16.7	18.7
November	24.5	25.4	27 · 5	23.3	25.0	20.1	22.9	18.2	15.7	17.5
December	25.4	25.6	30.0	22.8	27 · 7	22.0	16.7	18.6	16.2	17.7
Total	25.9	28.7	28·3	26.8	28.6	25 · 8	21 · 3	20 · 3	20 · 6	19·1

TABLE NO. 6.- BIRTHS, DEATHS AND INFANTILE MORTALITY BY GOVERNORATES AND PROVINCES, EGYPT

		1941			6761			1943			1944			200	
,		14.01			B J Bro			AL OF							
Localities .	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.
													•		
	00	10 C		100 10	100	C I	7		0		60 10	*	797 00		10 740
ours	62,774	40,165	12,441	65, 231	02,081	601,01	76,148		18,025		93,989	18,420	90,401		18,743
Alexandria	20,414	16,972	•	25,205	18,475	6,149	32,986	-			22,486	9	47,816	26,764	10,355
[smailia	જો	2,208	443	2,412	2,086	473	3,605	2,411	678		2,632		4,562	2,344	992
Port Said	4,	2,905	739	5,173	3,561	952	6,207	•	1,132		4,075	1,456	7,723	3,942	1,445
Damietta	2,	1,018	286	1,853	1,291	322	1,833	977	276		971	348	2,610	1,270	481
•		2,258	615	3,544	2,985	395	4,756		1,251			1,447	5,635	3,612	1,372
Districts	က်	3,746	825	3,829	2,756	631	4,232		738			216	5,990	2,757	779
Behera	42,	28,744	- 0	40,592	28,479	4,898	41,465						50,709	28,886	•
	60,	40,318	-	54,709	45,622	9,357	55,825			60,961			65,092	43,323	
•	92,	.56,442	11,761	83,155	63,456	12,139	85,688	60,778	11,703	91,008	54,444	11,753	96,485	65,376	3
• • • • • • • • • • • • • • • • • • • •	54,	35,898	61	48,233	40,580	9,389	50,660	-		49,801			52,051	39,751	
	28,	19,681	4.634	27,391	0.	4,905	29,800	-					32,324	21,199	
•	48,	31,501	0	48,171	2,808	6,536	49,840	-					53,844	35,354	
	11,	7,731	-	9,915	10,963	1,558	6,456	-				692	12,461	6,054	
	52,	ಣ		49,279	36,790	8,164	47,866	-			0)	9	53,322	41,841	
		p-mol	2,657	21,282	14,144	3,070	22,175	14,000		22,402	13,112	2,807	22,069	17,436	
Fayoum	26,	-	6%	25,955	18,405	5,097	26,041	18,132			[	0	27,582	19,465	
	47,	Ç	-	42,963	28,445	5,255	41,319	27,901			100	_	44,217	24,560	0
Giza	33,		5,363	32,277	25,353	6,327	34,145	_			I	-	38,838	24,827	6,312
Wiria	တ္ခ်	23,3	65	36,697,	25,484	6,207	38,104	00	<b>C1</b>	39,394	9	Ph.	42,202	36,006	-
0,621,		1	-	30,459	18,668	3,357	30,630	0.7	0	24,399	9	-	36,501	16,647	2,819
T&LO	695.016	440.981	104,402	658	494 358	110 847	689 77 8	492 644	110 520	722 166	472, 234	110 020	787 502	512 003	120 366
						ί					0				
				-		-	-		-					~	

Table 6.— Births, Deaths and Infantile Mortality by Governorates and Provinces (Contd.)

		1946			1947			1948			6761			1950	
Localities	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.
	94 831	52.57	19 006	998 00	44 106	17 919	100 005	50 679	10 040	740 AOL		17 000	119 000	24 5	100
	44,860	20,540	8 391	46 931	99, 380	× × × × × × × × × × × × × × × × × × ×	48 374	90,012	•	40,187	99 840	0 061	53 170	91 890	20,404
• • • • • • • • • • • • • • • • • • • •	4 579	20,02	745	7,110	9 597	777	70,70	0, HOO	~	10, 101 7 905	9 060	1000	00,110	9,029	107,6
		) ed	1 917	2,110	2,00	102	0, 010	2, con	1115	007.7 000 0	9,000	1,000	0,020	9,000	1,000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,001	•	907.0	1 103	1,100	0,00	00,040	~	200,00	1 057	021.1	0,000	1,000	1,400
Suez	5,546	3,255	1,166	5,757	2,624	1.023	6,183	3,054	1.156	6.493	3, 139	1.55	7,699	3,079	1.347
NORATES									11				193, 930	000	
		1			1									)	n .
Frontier Districts	6,411	3,075	995	7,177	2,675	855	008,9	2,733	927	7,496	2,730	915	7,475	2,524	921
Behera		25,743	4,753	49,796	25,861	5,516	50,776	21,285	4,955	50,146	21,931	•	54,750	20,362	4,922
Dakahlia	63,688	37,106	8,625	67,008	38,385	8,258	69,363	31,981	9,421	68,767	33,666	9,023	73,928	29,766	8,485
Fouadia			1	1	1	İ		1	1	1	-	-	33,880	10,910	2,613
Gharbia		56,573	11,797	02,185	57,732	11,070	107,125	46,709	13,116	108,235	48,951	200	84,491	33,497	9,263
Menouta		38,966	7.853	55,843	32,727	7,926	56,025	31,605	9,216	54,988	34,444	9,021	60,105	29,216	8,294
Qalubia significant	31,	20,980	4,690	34,093	17,475	4,526	34,919	19,467	5,808	33,796	18,239		37,513	17,031	5,094
	53,377	32,647	6,406	52,557	32,073	6,070	56,424	28,320	7,016	55,417	28,251	6,657	60,419	24,293	6,129
LOWER EGYPT			l	1				1	1	1	Bilayerahad		495,083	165,075	44,800
	362 01	14 0 14	011	070 11	C F	l l		,		3	1		1	(	1
Askau	10,030		1,173	11,343	5,188	1,200	10,734	2,012	1,246	15,913	5,074	1,243	11.954	5,844	],46]
Assint C			6,753	500,000	25,426	6,557	53,562	26,343	6.098	52,981	28, 193	6,461	56,471	28,029	640,4
Denl-Suel			2,586	26,010	11,465	2,607	24,780	11,329	2,746	24,218	12,311	3,015	26,422	10,937	2,903
rayoum	20,930	18.926	4,326	31,665	14,975	4,388	27,994	16,425	4,255	28,914	17,003	4,635	32,120	16,690	5,176
			3900	46,602	16,975	3,397	43,335	18,008	3,439	40,716	19,336	3,127	45,725	20,645	4,599
Criza			6,368	43,682	19,799	5,943	41,165	21,180	6,465	38,888	21,256	5,763	44,982	21,225	6,865
MINING BINING			4,847	•	18,921	5,332	44,530	20,891	5,696	44,284	21,748	5,769	46,740	22,708	6,225
	. 33,778	1	3,041	35,760	12,830	2,782	34,060	13,432	3,115	33,049	13,525	2,710	34,039	13,390	3,347
UPPER EGYPT	1	1	1	1	1			1					298453	139,468	37,655
Teral	774,152	469.382	109,023	834, 557	408,577	105,821	832, 728	397,976	115, 422	836,546	410,524	112.64	964,943	388,944	117,283
						-									

TABLE NO. 6 a.—BIRTH, DEATH AND INFANTILE MORTALITY RATES BY GOVERNORATES AND PROVINCES

		1941			1942			1943			1944			1945	
Localities	Birth	Desth	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.	Birth	Death	Inf. M.
Č	74.0	8.86	108			9.47	•	37.7	237	•	•	215			202
Callo	98.0	03.9	193	34.3	.25.2	204	44.4	32.7	250	52.7	29.7	217	55.5	34.7	242
Alexandria		20.64	935			214	•	41.1	188	•	•	184			168
Lamalia		9.16	169			183	44.9	24.6	182	•		192			187
Fortage	46.	93.0	139			174		21.4	151	•	•	147			184
Ushinetis		44.0	954					•	263		•	243			244
Transfer Transfer		21.6	176			165	35.3		174			135			130
Poblar Districts			199		25.0	121			109			107			105
Delegie	46.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	157		•	171	41.8	31.9	148		•	142			150
•			127	4	•	146			137			129			137
			155		29.7	195		•	165	•	4	171			164
***************************************	44.		160			119			162			162			100
			136		27.3	136			126						125
	35.		133			157			215			143			102
	41.		154			166			148			50 P			140
	37.1	19.7	119	34.9	23.2	144	35.9	22.7	138	4	0	120			197
			202			196			189		4	191			100
			117			122			114			ر در در د			0 0
			158			196		31.6	172		4	168			103
	40.0		160		25.4	169	•		165			157			170
Oena	31.2		117			110		21.9	<u>.</u>			105			
								<b>1</b>				2	9		
TOTAL	8.04	25.9	150	38.3	28.7	167	39.6	es 88.	160	41.0	8.9%	20	. 55 E. 55	2.00	<b>↑</b>

TABLE No. 6 a-Birth, Death and Infantile Mortality rates by Governorates and Provinces (confd.)

Birth   Death   Lat. M. Blath   Lat. M. Blath   Death   Lat. M. Blath   Lat. M. Blath   Death   Lat. M. Blath   Lat. M. Blath   Death   Lat. M. Blath   Death   Lat. M. Blath   Lat. M. Blath   Death   Lat. M. Blath   Death   Lat. M. Blath   Lat. M. Blat			1946			1947	1		1948			1949			1950	
drive         61.9         34.5         200         47.6         91.0         17.2         46.8         24.7         199         47.8         23.1         184         60.5         22.0           driv         61.9         34.5         187         192         60.7         21.4         115         60.7         23.4         189         47.8         184         60.5         22.0           find         60.1         22.7         199         48.1         197         199         47.4         181         60.2         22.7         199         47.8         187         189         60.2         22.7         189         60.2         187         189         47.8         187         189         187         189         47.8         28.7         189         47.8         28.7         189         48.7         28.7         189         48.7         28.7         189         48.7         28.9         18.8         48.7         28.9         18.8         48.7         28.9         18.8         48.7         28.9         18.8         18.9         48.7         28.9         18.8         18.9         48.9         18.8         18.9         18.8         18.9         18.8         18.9 <th>Localities</th> <th>Bir</th> <th></th> <th>,</th> <th>Birth</th> <th>Death</th> <th></th> <th>Birth</th> <th>Death</th> <th></th> <th>Birth</th> <th>Death</th> <th></th> <th>Birth</th> <th>Death</th> <th>Inf. M.</th>	Localities	Bir		,	Birth	Death		Birth	Death		Birth	Death		Birth	Death	Inf. M.
drive 61-6						1	2 2				1		( )	- L		7
Main		. 19	्र स्म	200	•		172			199			184			101
tid	•	.99	25.	187			192			10			184			174
tte 65-1 22-7 159 48-1 17-7 129 48-1 19-1 188 47-4 18-1 183 40-0 19-4 18-1 18-1 18-1 18-1 18-1 18-1 18-1 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		35.	162			151			160			149			131
the	•		22.	159			129			138			133			159
Coversional Covers	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		20.	136			131			109			137			134
GOVERNORATES         60 Verring         23.9         155         42.8         15.9         115.9         39.3         15.6         42.8         136         42.9         136         43.7         136 <td< td=""><td>•</td><td></td><td>54.</td><td>210</td><td></td><td></td><td>178</td><td></td><td></td><td>184</td><td></td><td></td><td>178</td><td></td><td></td><td>2:1</td></td<>	•		54.	210			178			184			178			2:1
or Districts         156	GOVERNORATES				-	1	1				1			199300		ine 50
or Districts         40-6         23-9         155         42-8         15-9         115         39-3         15-8         15-8         15-9         115-				i									٠			
1.   1.   1.   1.   1.   1.   1.   1.	Districts	200	0 23.	155		i	119	60	io				122		4.	123
18	•	40	6 21.	97		0	1111	6	9	98	-		98		io	20
18		45	5 26.	135		-	123	-	S				131		5	115
is          43·7         24·7         24·7         198         44·6         19·5         122         44·1         19·9         113         49·5         19·9         118         49·5         19·9         19·9         118·9         118·9         118·9         118·9         118·9         118·9         118·9         19·9         118·9         11	•	:			1	- 1		ļ	1	1	to comme		1		9	77
fig <td>•</td> <td>43</td> <td>7 25.1</td> <td></td> <td>3</td> <td>-</td> <td>108</td> <td></td> <td>6</td> <td>122</td> <td></td> <td></td> <td>113</td> <td></td> <td>60</td> <td>110</td>	•	43	7 25.1		3	-	108		6	122			113		60	110
19	•	39	2   30.5		-	00	142		9	64			164		95	138
B         42.0       25.7       120       38.7       23.6       115       41.9       21.0       124       40.4       20.6       120       44.1       17.7         LOWER BCXPT                    44.1       17.7       18.9  .	•	97	1 30.	146	6	10	133		i	99			151		3	135
LOWER EGYPT       16.5       110       39.6       18:1       111       36.1       16.9       116       52.1       16.6       78       38.7       18.9                          46.3       18.9       18.1       111       36.1       116.9       116.9       18.7       118.4       118.4       118.4       118.7		42	25.	120	ò	9	115		-	124			120		-	101
<td>EGYPT .</td> <td></td> <td></td> <td></td> <td>Para Manual</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>00</td> <td>SECOND SECOND SE</td>	EGYPT .				Para Manual				1						00	SECOND SE
<td></td>																
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	33.	.91	110					44	116	-	.9	78			122
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	38.	56.	129			118			133		6	122			125
m     m <td>٠</td> <td>37.</td> <td>21.</td> <td>107</td> <td></td> <td></td> <td>100</td> <td></td> <td></td> <td>111</td> <td></td> <td>6</td> <td>124</td> <td></td> <td></td> <td>110</td>	٠	37.	21.	107			100			111		6	124			110
<td></td> <td>. 38.</td> <td>28.</td> <td>166</td> <td></td> <td></td> <td>139</td> <td></td> <td></td> <td>152</td> <td></td> <td>4.</td> <td>160</td> <td></td> <td>•</td> <td>161</td>		. 38.	28.	166			139			152		4.	160		•	161
45.2     33.7     175     53.1     24.1     136     46.8     24.1     167     43.4     23.7     148     49.1     23.2       1	•		19.	93			73			79		4	22	ಸು	•	101
1	•	45.	33.	175			136			167		3	148			153
<td>• • • • • • • • • • • • • • • • • • • •</td> <td>35.</td> <td>25.</td> <td>132</td> <td></td> <td></td> <td>113</td> <td></td> <td></td> <td>128</td> <td></td> <td>0</td> <td>130</td> <td></td> <td></td> <td>193</td>	• • • • • • • • • • • • • • • • • • • •	35.	25.	132			113			128		0	130			193
EGYPT 42.6 25.8 141 43.5 21.3 127 42.5 20.3 139 41.9 20.6 135 44.4 19.1	:	29.	15.	06			91			91		<del></del>	85		•	86
42.6 25.8 141 43.5 21.3 127 42.5 20.3 139 41.9 20.6 135 44.4 19.1		:	I	1		Į.							•			126
1.61 5.75 9.02 6.15 621 2.02 9.02 6.25 151 9.02 0.25 ··· ···	± v m ∨ gL	67	G				200			1						
	TOIAL	4	3	141	•	•	2			25	•			7.17	1.61	130

TABLE No. 7.—BIRTHS, DEATHS, INFANTILE MORTALITY AND RATES BY GOVERNORATES AND PROVINCES, EGYPT, 1950

Localities	Births	Birth-rate per 1000 pop.	Deaths	Death-rate per 1000 pop.	Infantile Mortality	Inf. M. rate per 1000 births
	110,000	F0 F				•
Cairo	113,028		49,154	22.0	20,404	181
Mexandria	53,170		· 21,829		9,267	174
smailia	8,329		3,000		1,088	131
Port-Saïd	8,806	45.0	3,789	19.4	1,403	159
Damietta	2,975	50.2	1,026	17.3	398	134
Suez	7,622	64.4	3,079	26.0	1,347	177
Governorates	193,930	51.6	81,877	23.2	33,907	175
Frontier Districts	. 7,475	42.6	2,524	14.4	921	123
Bebera	54,750	40.9	20,362	15.2	4,922	90
Dakahlia	73,928	8 48.4	29,766	6 19.5	8,485	115
Fouadia	. 33,88	41.9	10,910	13.5	2,613	177
Gharbia	. 84,49	1 49.5	33,49	7 19.6	9,263	110
Menoufia	. 60,10	2 48.3	29,210	6 23.5	8,294	138
Qaliubia	. 37,51	3 50.0	17,03	1 22.7	5,094	136
Sharkia	. 60,41	9 44.1	24,29	3 17.7	6,129	101
Lower Egypt	. 405,08	3 46 · 3	165,07	18.9	44,800	111
Aorron	11,95	38.7	5,84	4 18.9	1,461	122
	56 47		28,02		7,079	125
	26.49		10,93		. 2,903	110
	29 16		16,69		5,176	161
	45.79		20,64		4,599	101
	44 9		21,22	25 23 · 2	6,865	153
	16.7		22,70		6,22	133
Minia	34,0		13,39		3,34	98
UPPER EGYPT	298,4	53 38.7	159,40	68 18.1	37,65	5 120
TOTAL	904,9	41 44.4	388,9	14 15.1	117,28	3 130

TABLE No. 8.—DEATHS BY AGE AND SEX AND RATES, 1950

Age	Males	Rate per 1,000	Females	Rate per 1,000	TOTAL	Rate per 1,000	Male rates per cent	Female rates per cent	Total Rates per cent
0-1 Year	— 115,673	— 83· <b>9</b>	 105,147	75·1	<b></b> 220,820	.79.5	30.0	30.3	30.2
5–9 ,,	5,525	4.2	4,212	3.3	9,737	31.8	25·8 <b>2·7</b>	27 · <b>5</b> 2 · <b>3</b>	2.5
10–14 ,,	4,092	3.3	2,680	$2 \cdot 3$	6,772	2-8	2:0	1.2	1.7
15-19 ,,	3,502	3.3	2,173	2-2	5,673	2.8	1.7	1.2	1.2
20-24 ,,	3,514	4.8	2,139	2.8	5,653	3.8	1.7	1.2	1.5.
<b>25–29</b> ,	3,912	5.3	3,114	$3\cdot7$	7,026	4.4	1.9	1.7	1.8
30-34 ,,	4,076	6.1	3,542	4.8	7,618	5.4	3· <b>0</b>	1.9	2.0
35–39 ,,	4,598	6.5	3,238	4.6	7,836	5.6	2 · <b>2</b>	1.8	2.0
40-44 ,,	5,083	8.3	3,457	5.7	8,540	7.0	2.5	1.9	2.2
45-49 ,,	4,414	9.6	2,384	5:4	6,798	7.5	2.1	1.3	1.7
50-54 ,,	6,892	15.2	4,463	9.3	11,355	<b>12</b> ·1	3.3	2.5	2.9
55-59 ,,	3,278	17.8	1,544	8.3	4,822	13.0	1.6	0.8	1.3
60-64 ,,	7,000	25.8	4,628	14.4	11,628	19.6	3.4	2.5	3.0
65-69 ,,	4,449	49.3	2,743	31.1	7,192	40.3	2.1	1.5	1.8
70-74 ,,	7,722	66.5	6,363	43.4	14,085	53.6	2.7	3.2	3.6
75–79 ,,	3,582	141.6	.2,857	110.7	6,439	126.0	1.7	1.6	1.7
80-84 ,,	6,854	182.8	8,227	145.6	15,081	160.4	3.3	4.5	3.9
85 Years and Over	12,151	653.3	18,293	725.9	30,444	695 · 1	5.9	10.1	7.8
Not Stated	847	31 · 3	576	16.1	1,423	. 22.7	0.4	0.3	0.4
Total	207,164	20 · 5	181,780	17.7	388,944	19 1	100.0	100.0	100.0

TABLE NO. 9. -- INFANTILE MORTALITY AND RATES BY CAUSES OF DEATH IN LOCALITIES HAVING HEALTH BUREAUS, 1941-1950

	1950		0.0		1.0	0.4	0.4	1	11.7	2.9	1.9	92.5	Ø.	) F	9.0		0					6.021
	6F61		8.0	0.1	0.1	0.4	0.4	0.5	12.8	2.9	1.1	94.4	6.0	7 0 0 0 0	0.0		7.0	0.5	0.3	3.1		174.7
	1948		6.0	0.5	1.0	0 4	9.0	0.5	15.4	2.4	1.1	89.6	ς.	000	0.4		က ()	0.5	0.5	က		1.22.1
18	1947		9.0	0.5	f0.0	0.3	0.4	0.3	11.2	2.2		93.8	8.0	2 E	0.3		0.4	0.5	0.3	4.4		168-1
Live Births	1948		1.1	0.04	0.1	0.4	4.0	0.4	11.4	3.5	1.2	104.2	75	N C C	0.0	•	<b>7.0</b>	e. 0 	0.3	4.5		187.1
per 1000	1945		0.2		0.03	0.5	0.2	2.0	13.1	3.0	2.5	115.2	9.0	69.0	4.0		0.4	က ()	0.4	5.0		205.8
Rates	1944		6.0	0.5	1.0	2.0	9.0	0.8	12.4	3.7	1.5	112.6	, c	20.02	0.00	1	0.5	₩.0	0.4	9.9		201.6
	1943		0.4	3 F. 0 O	0.1	2.0	2.0	1.0	13.0	3.8	F	122.7		60.4	1.0		ಣ -	<u>.</u> 0	0.4	8.9		215.1
	1942		1.6	7.0	0.1	9.0	8.0	8.0	14.9	3.00		127.6	٠	60.0	0.7		0.5	0.7	7.0	6.5		221.3
	1961		<del></del>			0		**	13.		6.0	109.0		2 2	0.00		0.3					196:0
	1950			5 39			$5 \begin{vmatrix} 145 \end{vmatrix}$		4,	7	1 750	3 37,583	·	00	8 236		<u></u>	0 80		7 1,177		4 69,446
	1949			$\frac{11}{67}$		47 131	221   165		4,	7	606  621	60 35,083		00	152 20, 302 152 168		115  140			205 1,137		6 64,914
	1948			575					947 5,5		536 6	030 32,460		101	~		138			<del></del> 4		380 63,516
	1946 1947			55 50 50					742 3,	145	497	34,086 33,030		0	,100 10,		132			<del>-</del> -		61,220 59,380
Mortality	1945 19	.	151	8,1 &8 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,		130	176	213	4.211 3	959 1,	393	173	00	5101	$\frac{138}{128}$		113	98	113	1,909 1		66,396 61
	1944		262	22	24	165	180	252	,705	1,095	347	33,647 37	761	100	151		74	119	122	1,983		60,235 6
	1943			81			183		က်	<u> </u>	301	33,230	10	0	195		08			1,841		58,259 60,235
	1942			08 138				3 198	್ಟ	`		5 31,099	•	7	5 168 5 168		6 47			-		9 53,913
	11-61			22				17	3,195		20	n- 25.325			165		99	16	15	1,54		45, 539
	Diseases of Infancy		Measles	a-14	Tuberculous Diseases	Syphilis	Rickets and Osteo- malacia	1s		Broneho-Pneumonia	Pneumonia	Diarrhoea and Enteritis	Congenital Defects	Of Colhormanian	Premature Birth	Consequences of	Delivery	Infanticide	Aecidents	Other Causes		Toral

7779 804 83 83

0,300,6,047 5,314 6,177 4,667 5,417 4,693 3,636 2,351 69,446

652 2 . TOM M 9238

198

\$88

912 1.622

796 1,355

TOTAL ...

TOTAL 254 4, 69 1, 34 2, 2 2 91 23, 금 355 91 52 10 397 1**22** 62 099 2 233 1 26 1 26 1 6 522 135 73 221 282 8 462 1117 S1 Months 732 145 145 93 110 468 83 64 95 3 348 269 76 62 147 **6**₹ 29 7 6 6 165 21 14 440 9 765 14 10 10 Days 90001467 · 63 8 Congenital Defects of Conformat Congenital Debility ... Diarrhoea and Enteritis... Syphilis ... Rickets and Osteomalacia Consequences of Delivery Causes of Death Convulsions ... Tuberculous Diseases Broncho-Pneumonia Diphtheria ... Bronchitis ... Whooping Cough Premature Birth Accidents ... Other causes Pneumonia Infanticide Measles

TABLE NO. 10.—INFANTILE MORTALITY BY AGE AND CAUSE IN LOCALITIES HAVING HEALTH BUREAUS, 1950.

TABLE No. 11.—Still-Births and Rates Per 1,000 Total Births by Sex

W. a. a. Platan		Still-Births		Still-B	irth-rates per	1,000
Localities	Males	Females	TOTAL	Males	Females	TOTAL
Dairo	1046	<b>7</b> 55	1,801	17.7	13.6	15.7
Mexandria	554	438	992	20.0	16.5	18.3
Imailia	<b>4</b> 1	27	68	9.3	6.7	8.1
Port-Said	151	113	264	32.6	25.5	29 · 1
Damietta	55	31	86	35.8	20.3	28.1
dez	53	34	87	13.2	9.2	11.3
GOVERNORATES	1,900	1,398	3,298	18.3	14.6	16.7
rontier Districts	1	2	•	0.3	0.2	0.4
Sehera	66	47	113	2.3	1.8	2.0
Dakahlia	234	170	404	6.1	4.7	5.4
Touadia	75	53	128	4.2	3.3	3.8
Ienoufia	183	122	305	5.8	2.2	5.0
Sharbia	238	115	353	5.5	2.8	4.2
Qaliubia	87 -	73	160	4.5	4.0	4.5
sharkia	123	78	201	3.8	2.7	3.3
LOWER EGYPT	1,006	658	1,664	4.8	3.3	4.1
Aswan	21	20	41	3· <b>3</b>	3.5	3'4
Assiut	106	69	175	3.2	2.6	3.1
Beni Suef	91	75	166	6.5	6.0	6.8
Fayoum	109	71	180	6•4	4.6	5.6
Gerga	93	57	150	3.6	2.9	3•\$
Giza	172	137	309	7.3	6.3	6.8
Minia	123	62	185	5.1	2.7	3.5
Qena	60	25	85	3.1	1.7	2.5
UPPER EGYPT	775	516	1,291	4.8	3.7	4:3
YOTAL	3,682	2,574	6,256	7.7	5 · 9	6.5

### Chapter II.—Infectious Diseases

A total of 50,654 cases of infectious diseases with 11,749 deaths were reported throughout Egypt during 1950, or a case-rate of 248 and a death-rate of 58 per 100,000 of the population as compared with 54,937 cases and 13,730 deaths reported during the previous year or a case-rate of 275 and a death-rate of 69 per 100,000 of the population.

The outstanding features of the incidence of infectious diseases were:-

- (a) The spread of Cerebro Spinal Fever in an epidemic form.
- (b) An apparent drop in the incidence of Measles.
- (c) An increase in the incidence of Influenza (vide tables Nos. 18-21).

The following is a brief study of the more important diseases.

#### Cerebro Spinal Fever:

Perusal of the incidence of cerebro spinal fever in Egypt since 1912 shows that three epidemic waves have taken place:-

The first wave began in 1913 and lasted until 1916.

The second began in 1931 and ended in 1934.

The third began in 1950.

One can say from this follow up that the disease spreads in an epidemic form after a period of 14 quiescent years and that each epidemic lasts about four years and reaches its peak in the second year.

#### 1950 Epidemic:

The epidemic wave began in December 1949, continued its upward trend until it reached its peak between 12th and the 25th of March 1950, and thence began its decline. (table No. 18). During the year, 2,521 cases with 401 deaths were recorded or a case-rate of 12.4 and a death-rate of 2 per 100,000 of the population. The case mortality rate was 15.9% of the cases were males. The case mortality rate was 13.7% for males and 11.1% for females.

The following are the case rates per 100,000 of population for the different age groups:

Age:	• • •	• • •	•••	0-1	1-5	5–15	15–25	25-45	45-65	over65
Rate:		•••		0.6	22.1	15.4	18.	5.	2.8	0.3

It will be observed that the highest rate was in the 1-5 years age group and that a marked drop occurred after the 25th year of age.

#### Geographical Distribution:

Most of the cases were recorded in Cairo, Alexandria, Port-Said and Suez where 72.4% of the total cases reported throughout Egypt were recorded. Since the population of the four cities represent 17.4% of the whole population of Egypt, it is clear that the incidence of cerebro spinal fever is highest in the larger cities. This may be attributed to the prevalence of cinemas, places of amusement, schools, etc where many people congregate, as may be demonstrated by the following table No. 12 which gives the incidence during 1950 for every province as a whole and the chief town of each province:

TABLE No. 12

Province	No. of Cases	Rate pet 100,000 of Pop.	Chief Town of Province	No. of Cases	Rate per 100,00 of Pop.
Behera	62	4.6	Damanhour	7	7.5
Dakahlia	50	3.3	Mansoura	10	9.0
Gharbia	148	8.7	Tanta	34	24.2
Fouadia	5	0.6	Kafer el Sheikh	2	11.3
Menoufia	22	1.8	Shebin el Kom	7	15.7
Qaliubia	45	6.0	Benha	5	12.7
Sharkia	76	5.5	Zagazig	33	36.7
<b>A</b> swan	10	3.2	Aswan	2	7.4
Assiut	70	4.8	Assiut	9	9.5
Beni Suef	7	1.1	Beni Suef	3	4.9
Fayoum	4	0.6	Fayoum	2 Deaths	_
Gerga	42	3.1	Souhag	6	12.9
Giza	99	10.8	Giza	51	63.6
Minia	16	1.4	Minia	2	2.8
Qena	6	0.5	Qena	4	8.7

Perhaps the accurate notification of infectious diseases in urban towns contributed towards the high rates therein.

The average case rate in Lower Egypt provinces was 4.7 per 100,000 of population as compared with a rate of 3.3 per 100,000 of population in Upper Egypt provinces despite the high rate recorded in Giza province which may be considered as a suburb of Cairo City.

Measurs taken in connection with the 1950 Epidemic.

#### A. Special Measures:

- 1. Patients: Patients were isolated in fever hospitals following notification or detection. Examining medical officers used to give patients the necessary injections or sulpha tablets on mere suspicion and before isolation. The hospital was notified of the amount and type of the dose given to the patient.
- 2. Contacts.—Adult direct contacts were given a daily dose of 2.5 grms. of any sulpha compound for three days. Where contacts suffered from sore throat, the dose was increased to 3 grms. given on three or four intervals. The dose was reduced according to age. In factories, prisons, schools, etc. contacts of the same room were dealt with as direct contacts. Other contacts in the establishment were given one dose only.

Treating medical officers and nursing staff were given a weekly dose of 2.5 grms. Persons accompanying patients in isolation were considered as contacts and given the prophylactic sulpha doses.

Visits to cerebro spinal fever patients were forbiden during the first week only.

- 3. Disinfection.—Usual disinfection was applied coupled with ventilation, cleanliness and exposure of beddings to air and sun.
  - 4. Observation.—Contacts were kept under observation for seven days.

#### B. General Measures:

Prohibition of crowdedness and effecting ventilation and cleanliness in:

- 1.—All means of transport.
- 2.—Places of entertainment and cinemas, with half hour intervals for complete ventilation and operation of air conditioning apparatus if present.
- 3.—Government and private congregations, e.g. prisons, auxiliary police force, infirmaries, schools and army forces. Sleeping in dormitories or wards was arranged in such a way as to increase the distance between the heads of sleepers by arranging beds so as to be alternately head and foot to the wall.

Measures taken following the decline of the epidemic wave:

Sulpha was administered to the following categories as a prophylaxis before the 1951 epidemic season:

- 1—Recovered cases of the preceding season and their contacts throughout Egypt. A large scale survey of contacts was carried out.
- 2—Inhabitants of squares, streets and lanes of towns and villages where numerous cases occurred in 1950. This measure was applied throughout the country.
- 3—Controllable congregations, namely factories with over 50 workmen, general and district prisons, infirmaries, auxiliary police force, army units and school pupils in Lower Egypt. In Upper Egypt, sulpha was administered to congregations in such towns where cases occurred.

The dose for adults was five tablets given at a time.

For children, the dose was given according to age.

In hospitals sulpha was given to patients suffering from sore throat or catarrh.

The above was done on three occasions: the first in October, the second in November and the third in December of 1950.

A total of 15 million tablets costing 80 thousand Egyptian pounds were ditributed on the three occasions. More than a million persons received the drug on each occasion exclusive of armed forces.

#### Typhus:

105 cases of typhus with 16 deaths were recorded during the year or a case-rate of 0.5 and a death-rate of 0.08 per 100,000 of population and a case mortality rate of 15% as compared with 180 cases with 53 deaths in 1949 or a case-rate of 0.9 and a death-rate of 0.3 per 100,000 of population and a case mortality rate of 29%.

The highest case rate of 6.3 per 100,000 of population was recorded in the Frontiers Districts. More cases than in 1949 were recorded in Cairo, Damietta, the Frontiers. Districts and Sharkia.

In the other localities there were fewer cases (Tables Nos. 18-21).

#### Measles:

Some 3,068 cases with 598 deaths were recorded throughout Egypt during the year or a case-rate of 15 and a death-rate of 2.9 per 100,000 of population and a case mortality rate of 19.5% as against 11,311 cases with 2,603 deaths or rates of 56.7 and 13 per 100,000 of population and 23% respectively in the pervious year.

Persual of table No. 19 which gives the case-rates in the ten years 1941—1950 shows high rates during 1941 and 1942 followed by a low incidence lasting six years and again a high rate in 1949 which was not maintained during the succeeding year. This fluctuation may be attributed to the well known fact that notification of measles is far from accurate.

Nevertheless, one can see from the following table which gives the figures for Cairo and Alexandria, where notification is more accurate than elsewhere, that the disease has a biennial outburst which may sometimes last for two years as in the case of Cairo and Alexandria during 1948 and 1949.

TABLE NO. 13.—NUMBER OF CASES

Year	Cairo	Alexandria	Year	Cairo	Alexandria
1940	1,369	669	1945	506	765
1941	762	1,272	1946	1,635	138
1942	1,721	134	1947	996	2,389
1943	271	576	1948	1,988	694
1944	1;336	325	1949	1,815	3,631
			1950	586	1,180

It will be observed from the following table No. 14 which gives the four weekly distribution of cases in Cairo and Alexandria during 1950 that the disease had two peaks one during June and July and the other during December:

TABLE No. 14.—FOUR WEEKLY DISTRIBUTION OF CASES

Weeks	Cairo	Alexandria	Weeks	Cairo	Alexandria
1- 4	6	1	25-28	106	167
<b>5</b> - 8	4	5	29-32	70	108
9-12	12	. 12	33-36	58	110
13-16	29	33	37-40	33	80
17-20	50	81	41-44	14	51
21-24	82	154	45-48	37	75
			49-52	85	303

It is believed that complications of measles are responsible for a large proportion of infantile deaths, and that early detection and treatment of cases would substantially reduce infantile mortality.

#### Plague:

No cases of Plague were reported since 1948.

#### Small Pox:

Nine cases of small pox were reported during the year. Of these, six were imported: 5 Indians arriving at Suez and a Chinese arriving at Quseir on board vessels. Of the remaining three cases, one, a dancer, occurred in Mousky district in Cairo, another, a workman, in Manfalout and a third, a farmer, at Fareskour. The arrival of the 6 imported cases did not cause alarm of a possible spread of the disease in view of the four yearly general vaccination of the whole population which had been introduced in 1945,

#### Diphtheria:

1,389 cases with 597 deaths were recorded during the year or a case-rate of 6.8 and a death-rate of 2.9 per 100,000 of population and a case mortality rate of 43% as compared with 1,683 cases with 603 deaths or rates of 8.4, 3.4 and 35.8% respectively during 1949.

The following table No. 15 gives the case and death rates in Cairo, Alexandria, the chief towns in governorates and other localities.

Table No. 15

	Ca	iro	Δlva	ndria		owns of	Other rura	localities
Year		1	Atso	1	Govtes a	nd Prov.		1 Tocarities
	Case rate	Death rate	Case rate	Death rate	Case rate	Death rate	Case rate	Death rate
1941—45	125.6	37.6	36.3	20.8	40.9	23.3	7.1	$4 \cdot 5$
1946	64.7	13.2	39.0	10.0	18.6	11.6	3.7	2.8
1947	47.3	8.2	33.0	$7 \cdot 6$	12.7	7 · 4	2.4	3.7
1948	44.7	8.8	23.5	5.3	16.7	7.9	2.9	2.1
1949	37 · 3	7.0	19.6	5.4	22.9	7.4	3.5	1.9
1950	24 · 1	5.0	25.6	7.2	13.3	6.2	2.6	$2 \cdot 0$
			4					

This table shows that the incidence of the disease is greater in urban towns than in rural areas and that the larger the town, the higher is the case rate. It also shows that, except in Alexandria, the incidence of the disease is on the decline. This may be attributed to the increasing number of immunised persons year after year

Survey of the monthly incidence of the disease shows that the highest incidence occured during October and November and the lowest in May. Most of the deaths from diphtheria occur during the second year of life.

It is very rare after the fifth year.

#### Typhoid and Paratyphoid:

During the year, 7,886 cases with 836 deaths were recorded or a case rate of 38.7 and a death-rate of 4.1 per 100,000 of population and a case mortality-rate of 10.6% as compared with 7,110 cases with 814 deaths during the previous year or rates of 35.6, 4.1 and 11.4 % respectively.

The following mean case rates per million of population for urban and rural areas show that in urban areas the rates are many times more than in rural areas. This may be explained by the different modes of living in each.

In rural areas, the meals are all prepared at home. In urban areas, a large number of the population get their meals in public establishments or from itinerant venders who abound in towns.

TABLE NO. 16— MEAN CASE—RATES PER MILLION OF POPULATION

Marie Control of the					
Years	Urban	Rural	Years	Urban	Rural
	*				
1931—1935	803	.40	1936—1940	870	94
1941—1945	1027	53	1946—1950	817	57
1931-1950	880	67			

It is recognised that the notification of typhoid cases is far from being accurate. There are several indications that the disease is wide spread in Egypt. It is believed that a large proportion of infantile enteritis is attributed to typhoid.

The four weekly incidence of typhoid in Cairo, Alexandria and Port-Said (table No. 17) reveals that the incidence starts on the rise about the end of April, reaches its peak about the end of July and August and declines thereafter.

TABLE No. 17.—FOUR WEEKLY INCIDENCE OF TYPHOID IN CAIRO, ALEXANDRIA AND PORT SAID

Weeks	Cairo	Alexandria	Port-Said
	157	42	31
5-8	125	31	18
9-12	162.	23	23
13-16	162	22	36
17-20	265	29	65
21-24	430	73	66
<b>25</b> –28	491	84	107
29-32	623	121	170
33-36	542	97	197
37-40	382	54	143
41–44	244	62	80
<b>45–4</b> 8	197	60	56
49–52	122	36	70

TABLE No. 18.—CASES AND DEATHS OF INFECTIOUS DISEASES, EGYPT, 1941—1950

Diseases	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Plague	41 - 6	15	163	644	218	211	I S			li
α} snydd	9,414	22,054	40,182	18,477	18,283	1,548	173	325	180	105
Small-Pox		1	4.138	11,194	1,355	416	170	16	eo ⊢	6
g bioid bioid	5,758	6,814	4,431	5,019	5,286 833	4,584	4,601	5,513 814	7,110	7,886
Scarlet Fever	91	සි ය	54	30	21	11 —	0 CI	6	18	- 24
Cerebro Spinal Fever { c	159	212	114	147	65	88	94	133	205	2,521
Diphtheria	4,037	3,950 1,882	4,143	3,326 1,264	3,130	2,047	1,809	1,835	1,683	1,389
Measles	9,769	9,764	4,249	7,274	5,444	6,968	6,886	6,485 2,408	11,311 2,603	3,068
Pulmenary Tuberculosis { c	6,296	6,608	6,770	6,950	6,819	6,407	6,523	6,614	7,219	7,011
Acute Pneumonia \ c	5,414 4,843	6,215 5,296	6,935	6,929	5,805	5,420	5,797	5074 3,561	7,458	6,786
Chicken Pox $\binom{c}{D}$	1,862	870 8	1,238	1,057	1,338	873	1,755	1,722	1,611	2,043
Puerperal Septicaemia { c b	461 344	332 208	375 187	375 158	387 178	266 145	310 101	296	291	320 59

		<b>-</b>	4	65	0110	:0.0		23 —					13
203	7,781	4,251	1,654	<i>∞</i> ⊶	989 55	1,726	83	233	347	oc	1,503	* *******	
1,130	6,330	2,717	1,392	per peri	1,385	2,628	∞ 4	198	418	ಕ್ಟ್ ಕ	1,458		
1,249	5,136	4,445	1,493	C.I	. 770	1,389	28	149	414	φ φ	1,413	9	
1,359	5,711 42	6,747	3,365	6 H	2,189	1,880	4	162	44.3	11	1,460	30	
1,130	17,570	9,262	5,686 4	9 =	904	1,290	67 CT 77	4 70 .	435 354	6.2	1,181	110,405 2,414	
1,217	14,642	5,887	141557	4 01	1,856	1,7	10 cs -		439	L 9	1,551.	18,126	
1,672	11,203	37,847	918, 931 14	13	1,208	1,033	€ 0 co	224	544	<u>—</u> 4	1,671	10	
1,872	14,056	16,530 1,341	11	ಬ್ಬ	2,054 105	1,449	9 4	593	442	L 23	1,956	-	
3,553	12,965	20,937 394	[ ]	C **	2,257	1,453	୦ ଟା	520	459	10 m	3,100	Manufacture of the Control of the Co	
3,447	11,120	9,320		22	2,923	1,755	- 20	511	433	16	4,502	1 1	
Dysentery {o Dysentery	Influenza {c	Malaria New { c	:	Anthrax o	Whooping Cough	Pacotitis (Mumps) {c	Endulant fever	o} fsorder	Tetanus	Acate Poliomyelitis { c	Stysibelas 60	Relapsing fever }	

Table No. 19.—Infectious Diseases Case and Death Rates per 100,000 Population, 1941—1950

Diseases	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
o } and and a first of the contract of the	0 · 08 0 · 04	90.0	0.09	25 cs	$\begin{array}{c} 1.2 \\ 0.6 \end{array}$	$\begin{array}{c} 1.2 \\ 0.3 \end{array}$	0.08			11
1   C   C   C   C   C   C   C   C   C	55.3 10.3	128·0 25·6	230.6	104.8	102.0	8.5	6.0	1.3	0.0	0.08
Senall-Pox	11		23.8	63 5 5 7 8 7	9.0	2.5	0.9	0.0	2.02	0.04
Triploid fever b	33.8 6.9	39.6	25.4 4.5	28.5 4.5	29.5 4.6	25.2 3.5	$24.0 \\ 3.6$	28·3	35·6 4·1	38.7
Searlet fever $\binom{c}{D}$	0.2	0.0	$\begin{array}{c} 0 \cdot 3 \\ 0 \cdot 02 \end{array}$	0.5	0.1	0.1	0.1	0.04	0.1	0.1
Cerebro Spinal Fever C	9.0	$\begin{array}{c} 1.2 \\ 0.6 \end{array}$	0.7	0.8	0.9 6.0	0 0 5	0.2	0.4	1.0	$\begin{array}{c} 12.4 \\ 2.0 \end{array}$
Exiphtheria $\begin{pmatrix} c \\ D \end{pmatrix}$	23.5 11.3	22.9	23.8	18.9	17.5	11.2	9.5 3.1	9.4	8.8 4.8	6.8
Measles $\left\{ \begin{array}{cccc} c \\ D \end{array} \right\}$	57·4 16·9	56·7 21·2	24.4	41·3 14·0	30.4	38·4 9·5	36.0	33.2 12.3	56.7	15·0 2·9
Palmonary Tuberculosis C	36.9	18.4	38·9 20·9	39.4	38·1 20·5	35·3 20·2	34·0 18·7	33.8	36·2 19·1	34.4 $20.2$
Acute Pneumonia C	$\begin{array}{c} 31.8 \\ 28.4 \end{array}$	36.0	39·8 33·1	39.3	12:4 27:0	29.9	30·2 20·6	25.9	37·4 24·6	31·3 21·5
Chicken Pox { c	10.9	5·1 0 05	7.1	6.0	7.5	4·8 0·1	9.2	8·8 0·005	8.1	$10.0 \\ 0.02$
Puerperal Septicaemia ( c	2.7	1.9	2.2	2.0	2.2	1.5	1.6	1.5	1.5	$\frac{1\cdot 6}{0\cdot 8}$

	1 1		0.03	1.2	6.1	95.6	90.0			1	Relapsing fever
	# 6Å	0.3	4.0	9.0	6.5 0.5	8.0	9.5	11.22	18.5	26.4	Frysipelas { c
	\$0.0 \$0.0	0.00	0.03	90.0	0.01	0.04	0.00	0.04	900.0	0.00	Acute polionyelitis { c
	1.4	1.5	2.1	1.6	4.70	1.7	3.1	1.5	1.8	1.8	Tetanus { c
\$5 si	- O	1.0	0.0 8.0	∞ <b>e</b>	0.7	1.9	 	2.3	3.0 0.5	3.0	Leprosy So
(heripan	· 0	0.05	0.03	0.00	0.1	0.08	0.1	0.03	0.05	0.1	Undulant fever $\left\{ \begin{array}{ccc} c \\ D \end{array} \right\}$
	\$\dot{\dot{\dot}}\$	13.2	7.1	9.8 0.05	7.1	9.7	6.0	8.3	8.4 0.2	10.3	Parotitis $\left\{ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	4 0 60 %	6.9	3.9	11.4	0.0 0.3	10.4	6.9	11.8	13·1 0·8	17.2	Whooping cough \{ c
	0.00	0.002	0.01	0.05	0.00	0.02	0.07	0.08	0.02	0.1	Anthrax Sp
	8·1	7.0	9.1	17·6 0·005	31.3	789.8	1238·2 0·08		1 1	1 1	Malaria Recurrent { o
	20.8	14.1	22.7	35·2 0·2	61·1 0·1	32.9	214·7 10·6	94.9	121.5 2.3	54.7 0.6	Malaria New \{ o
	88. 64.69.	31.7	26.3 0.2	29.8	96.8	81.7	63.6	80.7	75.3	65.3	Influenza { o
	5.8- 1.0	1.0	6.4	7.1	6.5 1.8	6.8	<b>\$</b> 0.68	10·7 3·5	20.6 3.3	80·8 3·0	Dysentery \{ o

1,190 50 Dysentery 34 114 111 111 150 153 1,130 58 80 11 9 69 145 102 9070 320 Puer peral Septicaemia 50 412399 00100000HF84 291 49 Pox. 7,011 7,458 6,386 1,611 2,043 50 Acute Pneum. Chicken 109 54 57 60 60 48 49 
 586
 3,599
 3,564
 2,453
 2,163

 1,180
 1,087
 1,180
 2,587
 2,979

 85
 212
 161
 284
 288

 - 20
 23
 15
 17

 8
 138
 63
 177
 125

 99
 15
 18
 6
 19

 60
 89
 107
 89
 54

 28
 301
 297
 67
 46
 444 444 444 30 288 17 17 19 19 54 46 17 30 128 18 81 81 31 126 5 45 46 162 49 99 289 128 165 170 109 143 91 91 130 113 104 53 134 Pulmonary Tuber. 30 410 133 163 139 160 80 80 129 49 11311 3,068 7,239 141 131 91 49 177 32 62 62 87 87 32 32 130 50 Measles 
 538
 1,815

 257
 3,631

 13
 1

 42
 71

 3
 22

 20
 64

 37
 517

 33
 534

 108
 511

 33
 490

 59
 168

 54
 531
 639 134 396 803 164 49 9 €83 F. 39 Diphtheria 20 809 83 11 11 62 62 62 49 49 Cerebro-spinal F. 2,521 50 10 49 C.S. 50 타 Scarlet 18 49 734 16 227 197 12 81 173 98 168 168 168 358 66 66 062 146 3.902 7,886 Fi 20 Typhoid. 206 177 127 93 61 15 71 71 61 88 84 23 132 36 173 103 7,110 49 10 H Small-Pox 50 01 63 49 60000 27 II 105 3 Typhus 133 01 7 က 1 36 180 11 Frontier Districts Localities TOTAL Damietta ... Alexandria Port-Said Menoufia Dakahlia Beni-suef Smailia Suez ... Fayoum Fouadia Oalinbin Gharbia Behera Sharkia Aswan Gerga Assint Cairo

TABLE No. 20.— CASES OF INFECTIOUS DISEASES, 1949-1950

TABLE No. 20.—CASES OF INFECTIOUS DISEASES 1949-1950 (Contd.)

Erysipelas	15	301	669	7 6	٠ و	68	I	14	7	46	27	- e	22.	74	32	35	46	7	16	14	91	10	18	38	9	0			, w 03
Erys	49	305	516	010	7	15	∞	14	7	43	77	-		131	73	37	37	10	19	7	24	8	200	27.	5 6	07			86
polio,	50		+ 67	•		i	1	1	1			l	1	ट्य	1	1	CA	1	1	1	1	1	1	1					OD)
Acute polio,	49	,	5	>	1	2	1	1	1			İ	1	<del></del>	1	1	1		1	1	1	1							67
sna:	20	6	47	H	N	12	8	2		20	36	17	7	44	52	18	22	-	38	6	00	13	14	66	7 0	13			472
Tetanus	6	ec.	7.4	3 6	ا در	200	-	7		27	200	T.77	1	55	24		14	1	25	10	4	12	9	06	2 6	13			418
QSO	20	7	40	7	1	-	1	2	-	+	11	- G	7	က	21	ಣ	7	83	14	103	9	6	000	100	0 7	77	- !	-	\$33 \$33
Leprosy	49	C	10	101	1		63	2	1	17	7	01	1	00	32	20	14	hand	6		ಣ	16	1	- 0	01,	91			861
ant	20	00	3 -	→	-	1	1	-		G	70	G F	<b>→</b>	4	-	-	1	1	1	1			α	0 6	1	1			&≷ 00
Undulant	49	S.	70	7	1	<b> 4</b>	1	_	- 1			<b>→</b>	1	4	೧೦	හ			1	1	<del></del>	1	C	3	<u> </u>	1			300
itis	20	6,	2002	000 000	3	20	5	25	25.0	0 10	70	07		62	138	6	ဆို	ಣ	20	-	41	4	06	07	17	4			,726
Parotitis	49	070	000	282	·?	97		94	244	FE-7	# t	•		126	151	200	34	33	49	_	21	4	122	1 0					628
ing h	20	796	1001	707	<u> </u>	20	1	19	4	10	177	<del>ه</del>	l	30	29	9	20	7	27	-	94	100	LVG	- H G	7	7.3 7.3			986
Whooping Cough	49	200	140	143	1	00	<del></del>	( GC	2	27	07	120	1	42	31	6	300		20	22	400	39	100	2 77	3	4			1000
ax	50		1 .	1	1	1	1				1	1	1	67		-	1	-	1	-	1				1	1			7m4 6°0
Anthrax	49		1	1	Į	i	1				]	1		<del></del>	1	1	1	1		-	1				1				Seed.
Rec.	20	0	0	1	l	ſ	-	cc	>	1	1 -	, ,	,291		84	33	40	{		_	154		-	H 14	<u>ا</u> د	16			,654
Malaria Rec	49	16	04	1	1	1	-	C(	·	ા	1	0	i	599	36	16	16	150	1	9	611			0	0 ;	25			392
	20	002	800	31	56	77	14	10	7 1 1 1 1 1 1 1	007	LOCA	27.1	182	129	56	418	925	!	7.2	939	09	10	5 7 KG	H 72 74	010	48			4,251
Malaria New	49	100	700	204 204	52	104	4	95	27 -	07	30	10.7	1	575	27	230	110	4	32	200	000	1	076	0.1.7 0.00	22	3			2,817
	20	100	, (82	-	35	677	41	77	000	07	133	172	62	281	114	233	98	39	239	57	98	67	999	146	140	113			,781 2
Influenza	49	000	,139 2	2;	21	484	40	1961	100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000	168	187	1	378	139	231	57	7.	137	9	93	77	7 / 7	190	150	110			6,330 7,781
	1		: 77					:	:	:	:	:	:				•	•			•	•		:	:	:		}	:
			:	:				:	:	:	:	:	•			•	•	•	•	•	•	•	:	:	•	•			:
			:	:				:	:	•	:	:	•			•	•	•	•		•	•	•	:	:	:			LAL
			:	:	•			:	:	•	:	:					•	•			•	•	•	:	•	:			TOTAL
tion the	900						• •	:	:	•	:	•	4					•	•		•	•	:	:	•	:			
Localitica	1000			•			•		:		•	:					•	, 4	•	•	•	•	•	:		:			
-	4		•	•			•	•		Frontier Districts		•						•											
			:	:			•	•		Istr	•	:			•	•	•	•	•	•	•	•	•	:	:	•			
			:	lria	-	77	4.4	E S	: (	II I	:	13	್ದದೆ	a	و در	10	3 6	1	•	Tof	3 6	111	•		:	:			
			0	Alexandria	Ismailia	Port-caid	Diot.	Damletta	7	ntie	Behera	Dakahlia	Fonadia	Gharhia	Monoufie	Oslinhis	Sharking	Agmon	Againt	Roni-Guof		Core	Ceron C		118	13			
			Cairo	Ale	Rm	Por		r Car	Suez	Fro	Bel	Da	For	G. P.	Mo	O	5	Age	Age	Ros	To	2 5	5	RZIS	Minia	Qena			

TABLE No. 21.—INFECTIOUS DISEASES CASE-RATES PER 100,000 POPULATION, 1949-1950

	.		ė	Č	75	8	Á	é		6	ia a	ঝ	6	1¢	0	0	6	89	ho	03	**	*	10	į.	4			à
Dysentery	20	(	Ø	26.	Lece	1 29	OT	1 3	.96	29.	Ö	hand	ಣ	¢	-	67	4	C/I	ಣ	0	000		0	18	च्या			M.O
Dyse	49		•	•	9.6				50.4	•	0.8	•	I	3.1	-	•		•	•			•			13.3		1	<b>10</b>
al Sep.	0.0	1	 c.9	10.1		1.0			1.0		0.07	9.0	1	0.5	8.0	10.4	•	•	2.0	•	0.4		•	•	•			9.1
Puerperal	49			9.8									1	0.5	8.0	2.0	0.07	•	2.0	•	•	•	•	•	0.03			<u>-</u>
Pox	0.50		•		7.		200										4.2											0.01
Chioken	49								46.9	•	•		1	•	•	•	4.3	•	•		•		•	2.8	•	,		- •
e onia	0.0		1.06	36.5	21.4	47.9	1 L. OG	07	J. CO	10.8	4.0	3.0	2.1	2.9	2.0	8.01	9.1	2.6	2.9	1.2	4.6	4.3	13.3	3.0	3.8			es :
Acute Pneumonia	49	20.01	0.71	99		50.3	000	7 07	۵۶.۶ <mark>۵</mark>	4	$\infty$	10	1	3	20	$\overline{}$	2.3	9.	$\stackrel{\cdot}{\infty}$	$\infty$	4.	•	$\overline{}$	$\overline{\cdot}$	0			. P. C.
ary	20		03.4	17.3 2	2.1	6.5	<u> </u>	0 0									12.4											34.4
Pulmonary T. B.	67	G	7,09		60	) F	1 6	2 t	ان ان ان		8.9	20.5	1	•		•	9.6	•	•	•		•	•	4.5	11.4			36.3
86	20	G	7	<u></u>	2.0	5		0	0 1	•			•	•	13.7		•	l	•	•		•	•	33.7	•			15.0
Measles	64	c	0	_		9			0.00	•	39.5	•	1	8.03	•	•	38.7	•	9.44	•	•	•	•	45.2	•			2.99
rfa	20	-		9	6.3	70	) -	1 0	1 6	_	$\overline{\infty}$	22		6.3	-	6.2	3.9		3.5	-	_			2.3	_			Ø
Diphtherla	6#		<b>-</b>	<u>ن</u>	0.2	4.	6.	1 0	د در	7	7.7	မှ	1	<u>ښ</u>	$\frac{\cdot}{\infty}$	6.	3.2	9.	6.	9.	6.	2.	<del>!</del>	9.	4.		-	× × × × × × × × × × × × × × × × × × ×
	20	~	31	 e 0	1	4.6	•			1	1			1	1	1	1	1	0.02	1	1		0.1	1				
Scarlet Fev.	49		#:0	 0.0	-	9.1	1			1	1		1	1	80.0	ļ		1	1		1	I	1		1			ਜ. ਜ. ਜ.
pinal	0.00		90 t		13.6	37.8										•	5.5			•		3.1		1.4	•			14.4
Cerebro Spinal Fev.	49	-	T.0	 6.	1	6.4	H '		 ∞. ⊃		]	0.1	1	0.4	80.0		0.5	1	0.5	1	1	1	0.7	60.0	80.0		•	) 
	20	1	 ဂ	0	30.0	549.91	9 6	# 0	4.62		•	•	•		•	•	7.1	•	11.5	•	•	8.8	•	6.9	•	'		2.00
Typhoid Fev.	49		<u>ر</u>	<u></u>	28.7	0		- L	•			6.9	1	•	6.3		6.9		5.4			•	•	6.1	•			9.09
ЖC	50			1	1	<u> </u>	2	,   G	71 9	9.0	1	0.07		-	-			1	20.0	1	1	1	1	1	1			¥0.0
Small-Pox	49		1.0	1	-	1			1	1	!	1	!	1	1	1	1	1	1	1	1	1	0.1	1	1			20.0
	20	-		9.0	1	1	, T	1.0	ī	•	0.3	1.8	1	0.4	0.5	•	0.4	1	0.1	1	1	1	0.5				À	n.
Typhus	49		0.0		1	-		1	).1		0.1	5.0	1	0.3	1.3	-	0.5	1	1	1	1	0.02	4.0	1	0.5			ה ה
			:	:	:		•	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			:
			:	• • • •	•		•	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			:
ies			:	:	:		•	:	:-	Districts	:	:	:	:	•	:	:	;	:	:	:	:	:	:	:		) 4	LOTAL
- Localities			• • •	ದ			•				•	:	:	:	:	:	:	:	:	:	:	:	:	:	:		E	0.1
I				Alexandria	ilia .	Port Said	Damiette	nenna		H	ra	Dakahlia	Fouadia	bia	Menoufia	Qaliubia	kia	an	ıt	Beni-Suef	Fayoum	9	:	G	:			
			Cairo	lexe	Ismailia	ort.	010	Jail	Suez	ron	Behera	)aks	ona	Gharbia	[enc	alin	Sharkia	Aswan	Assiut	eni	ayc	Gerga	Giza	Minia	Qena			

TABLE No. 21.—INFECTIOUS DISEASES CASE RATES PER 100,000 POPULATION, 1940—1950. (contd.)

Localities	Influenza		Malaria New		Malaria Recurrent	- 54	Anthrax	н	Whooping cough		Parotitis (Mumps)	ū	Undulant	- Fi	Leprosy		Tetanus	polic	Acute poliomyelitis		Erysipelas
	49	20	49	20 4	<u>.</u>	50	49	0,5	49	50	49 5	50	49 5	50	49 50	49	9 20	49	50	49	20
Cairo	98.5	24.4	!	8.26	9.	1 0		=	1	6.1	٦	1 6	1 6	1 9	1 6	1 6	1 0	1 -	0.0		18.
Alexandria	6	•	000		,	<del>-</del>	-		٠ ٠			3.0.8		9 -		4 0.	9 TC	- 1-			
Ismailia	18.3		<u>ښ</u>				1	1	-	2.1	9.	· -		4			3 00	0 4		1.	7 9.1
Port-Said	H	346.1	0	39.4			1	1	4.8	2.6 24		$\frac{0}{9}$	ıö	1	0.5 0	0.55	9			39.	
Damletta	0.02	69.1	0.7	23.6			-	1	1		7	7	-		4		-1			3	18
Suez	i,		0	-	0.2	5.1		1	2.6	$10 \cdot 1 \mid 20$	6	-	8.0		1.7 1	1	4	1.		12.	
Freder Districts	- 1	11.4	ं	87.1	1.1		_		9.6	13	7.	0.7		1	9.	9.				4.	41
Dell'allia	•			0.	1	0.5	1	<u> </u>	8.0	9.1	$\infty$	1.4	0				<u> </u>	0.		· က	က
Dakabila	. 12.6		ं		0.4	0.5	-			67	٠ ت	.10	0   20	.2	0.	7	1.6 1	4	-	من	70
roughly		2.2	1	2.2	15	59.5		1	1				0		0	.5		-		-	೧೦
Wanter free			4	6 9.1	24.4	0	.04 0	0.1		-		0 9.		0.5	4.	61	ci	6 0.04	4 0.1	10	4
Menouila	. 11.		<del></del>		3.0 6	,	<u> </u>	0.08	10	2.3	.4 1	.1	.2	80.		-	0.			9	CI
Charling	ਜ਼ ਜ਼			00	2.2		1	1	0.	0.8 27	10	1.2 0			0 2.0	.4 1	52	4	-	7	1 4.7
Agreem	· <del>†</del>	•	0.	67.4	5	6.		1	2.2		٠ <u>٠</u>						0.	9	0.1		က
Asyan		OI		1	4.6	1	1	1	1	<u>0,3</u>	$\infty$			-	ಣ	9.	0	ය 	1		0
Romi Guof			.5	6.4	0  - 			<u> </u>	7.	00:1	ت		<u> </u>		9.			9			
	G		∞. <u>≻</u>	تن	<u>o</u>	3		1	3.4	<u> </u>	ं।		-		.2		.8	4	-		9.1
Corns	<u>.</u>	•		8.4 87	7.3 21	9.	<u> </u>	- 57	7.2 13	্	3.0	.7 0.1	_	-	0.4 0	0 8.	.6 1.				57
			تن	6.0				1	7.	0.4 (	ಟ		-		2		.9 1.	0			0
Mind	27.8	25.5	$\infty$	27.7	0	Ţ	_	-	.0 27	0.	$\infty$	.4 3	0.0		$\infty$		.8 1.	5	-		91
		13.0		$\infty$	<u></u>	4.		1	<u> </u>	2.4 0	).6	red •	0	ं।		4 2	.6 1.	9			9
, cond		9.6	-	4.1	$2 \cdot 2   1$	<b>7</b> .		0	.03	$\infty$	1		1	1	0		-				
						<u> </u>						-									
Total	. 100	63 00 65	4.1	8.02	00 20	Your	0.005	9	0	OX.	6.	€ 1.00			· pos	<b>0</b> -	6	30.0			× ×
					,				•	)	?			¥		<b>2</b>	<b>≥</b>	>		**	
																					-

203 100 mm H Dysentery 35 208 69 Puerperal Sept. **C3** 559 7 - O - O O O O - C O O 49 pox70 50 Chicken 9 45 Acute Pneu. monia 41 250 250 50 50 50 49 62 62 71 71 112 113 119 98 4,383 5 247 533 622 104 104 171 144 49 101 101 4,114 4,898 67 557 557 148 274 477 477 1133 2238 36 189 98 143 110 64 109 50 50 50 Pulmonary T.B. 50 203 97 96 97 128 128 68 68 159 44 81 131 122 131 10 102 152 153 3,812 49 10001 L 83 598 Measles 771 513 14 16 1 33 86 185 76 114 777 777 227 229 248 68 68 603 4:0 લ્ટ 597 Diphtheria 50 151 53 10 10 11 10 10 880 387 37 30 10 10 10 10 10 10 603 49 1032222 153 68 28 7 10 23 401 Cerebro Spinal F. 60 > 5 49 50 Scarlet Fev. 49 836 30 Typhoid 358 20 20 30 30 30 10 814 49 Small-Pox 50 43 91 50 snqd 55 49 : : TOTAL Localities Frontier Districts Alexandria Gerga ... Beni Suef Damietta Port-Said Suez ... Menoufia Dakahlia Assiut ... Fayoum Cairo ... Qaliubia Emailia Fouadia Gharbia Sharkia Behera Aswan Minia Giza

TABLE NO. 22.—DEATHS FROM INFECTIOUS DISAESES, 1949-1950

pelas	20	7101	8
Erysipelas	C <del>p</del>	71	5
Polio,	020	<u></u>	=
Acute Polio.	64		6
snt	0.0	8     1     2     1     2     1     2 <td>347</td>	347
Tetanus	67	22 8 8 8 8 1   6 4 4 1 1 1   4 4 8 8 8 5 7 7   1	246
NSO N	- 000	REM 3 4 4 7 4 7 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1	49
Leprosy	64	r	69
ant.	95		
Undulant Fev.	6.7		4
bis	020		
Parotitis	- CF		<u> </u>
ing	0:0		13
Whooping	64	01	\$2 44
.a.K	50		=
Anthrax	49		
ia cent	020		
Malaria	65		
New	000	4-	13
Malaria New	49		12
-	50	0 cd   cd	7.
Influenza	67	4	98
			:
			AL
			Toral
Localities			
1.0		stricts : : : : : : : : : : : : : : : : : : :	
		:	
		Cairo Alexandria Lamailia Port-Said Damietta Suez Frontier Di Behera Dakahlia Rouadia Gharbia Mencufia Qaliulia Sharkia Aswan Assiut Beni Suef Fayoum Gerga Giza Minia Qena	

Table No. 22.—Deaths from Infectious Diseases, 1949-1950 (Contd.)

0.08 1.3 50 Dysentery 3.0 1.7 1.7 0.8 0.1 6 0.08 0.8 0.5 1 .0 0.4 0.3 0.1 2.0 63 Puerpers! Sept Ö 0.2 0.1 0.2 0.6 0.6 0.6 0.0 0.0 0.03 0.0 0.4 49 € • 80.0 0.07 0.1 Chicken pox 13 0.03 6 70 Acute pneu monia 50 21 24.6 49 65 Pulmonary Tuberculosis 50 20 66.8 62.7 38.3 38.3 26.9 10.2 10.2 8.8 13.8 14.7 14.8 14.7 14.8 14.8 14.8 15.8 16.8 1 .61 49 0.06 11.6 6.0 2.8 4.6 5.7 1.4 0.4 8 50 Measles 22.4 12.2 8.5 1.7 1.7 18.6 6.6 13.0 64 6 Diphtheria 50 62 3.0 49 0 Cerebro Spinal F. 50 es  $1 \cdot 6$ 0.20.5 1.4 0.2 0.3 \$ F-1 50 Scarlet 80.0 0.002 49 4.1 50 Typhoid 4.1 49 0.1 200.0 Small-Pox 50 49 0.07 0.07 0.1 80.0 9.0 0.3 0.1 50 Typhus 0.04 0.00 6.0 1.3 0.4 0.5 0.5 8.0 49 : Frontier Districts Localities TOTAL Damietta ... Alexandria Port-Said Beni-Suef Smailia Menoufia Fayoum Dakahlia Suez ... Qaliubia Fouadia Gharbia Giza ... Sharkia Behera Gerga Aswan Assiut Cairo

TABLE No. 23.—INFECTIOUS DISEASES DEATH RATES PER 100,000 POPULATION, 1949—1950

_
contd.)
Ĭ.
23
No.
ABLE
TA

Erysipelas	20		8.0	1.0	0.7			1	9.0	,	1	0.4	0.5	80.0	0.3	0.3	1	0.1	0.5	0.4	1	0.5	0.0			-	8.0
Erys	49		8.0	1.0		1.0	1.7	1	9.0	0.5	0.07		0.5	0.4	0.1	0.5	-	0.5	1	0.1	0.07	0.5	0.4	·			e: •
te relitis	50		0.04	1	1		1	1	1	1	1	İ		1		1	1	1	1	1				-			200.
Acute Poliomyelitis	49		1	0.5	1	1.0		I			1	1	0.04	80.0			-	-			0.1	1	60.0	,			0.02 0.002
sn	0.0		1.4	3.5	2.1	2.0		8.0	1	2.8	1.7	9.1	1.8			1.2	1	1.7	1.5	2.0	1.0	2.5	1.6	0.0			÷-
Tetanus	49					1.6		0.0	1	2.4	T:	-	1.8	I.I	1.4	T.	1	0.1	0.4	0.4	1.0		1.5	9.0			4.1
Sy	20			1	1	1	1	1	1	0.4	0.1	0.5	0.1	1.0	0.4	0.4	0.3	-07	0 ت	0.1	0.5	0.3	0.4	0.5	1		8.0
Leprosy	49			1			1	1	1	80.0	0.1	1	0.04	2.0	8.0	1	0.3		0.5						•		
t 扫	020		1	1	1		1	1	1	0		1	0	-	1	1	1	1	1	1	0	1	1	1			.
Undulant F	49		0.05	1	1	1	1	1		1	1	1	1	1	0.1	Ī	1	1	1	1	-	00.3	1	1			20.0
	020		1	1		1		i	1	1	1	-	1		-	1	1	1	1	1	1	1	1	1			-
Parotitis (Mumps)	49		6.0		1		1	1	1	1	0.1	1	1	80.0		-	1	1		1	0.07			1		1	0.04
ng C.	50		 ග ව			70			1	0.07	0.07	{	0.1	0.5	0.1	0.07	1	0.5		1	1	2.0	1	6.0 0			÷ ÷
Whooping C.	49	!	ာ		6		1		1	0.30	0.10		0.1	1	1	0.30	1		8.0	1.0	1	9.0	1	1			0.4
	20			1	1	1		1	1		1	1	90.0		-	1			1	1	1	1	1	-			200.
Anthrax	49		-90.0	1	1		1		1	1	1	1	0	İ	1		1	1	1	1	1	1	-	-			0.00
ia- ent	50		<u> </u>	1	1		1	1		l	1	-		1	1		1				1	1	1	1			
Malaria- Recurrent	49		1	1	<u>.</u> 	1	1	1	1	1		1	1			1		1		1	1	1	1				1
New	20		1.4	0.1	1	1		1	1	0.2	20.0	0.1	90.0	0.5	1	1	1		1	1	1	0.1	1	1			20
Malaria-New	49				6.0	0.5		6.0	1	1	0.07   0.0	-	0:1 0		0.1	0.02	-	1		1	1	0.03	1	60.0			0 60.0
	50	!	-	0.5	1	1.0	1	graph and		0.1	0.3 0	1					 .0	က က ()		0.4	0.1	1	1.2	0.3			
Influenza	49	)	9.0	1	6.0	0.5	1	1	1	1.0	0.4	1	0.3		 0	1	9.7	0.1	2.0		1	0.03	0.1	0.3			0.4
			:	:	:	:	• :	:	:	:	•	:	:		•	:	:	:	:	:	:	:	:	•			: .
	Н		:	:	:	•	:	:	:	:	:	:	•	•	:	:	•	:	:	:		•	•	:			•
•			:	:	:	:	:	:	•	:	:	:	•	:	:	:	:	:	:	:	:	:	:	•			TOTAL
33			:	:	:	:	:	•	:	:	:	:	:	:	:	:	:	:	•	:	•	:	:	•			To
Localities			:	:	:	:	:	:	:	:	:	:	:	*	١:	:	:	•	•	:	•	•	:	:			
Lo			:	:	:	:	:	•	ricts	:	•	•	•	:	:	:	•	:	•	•	:	•	•	:			
(			:	ಡ	:	:	:	•	Dist	:	•	:	•	:	:	:	•	•	:	:	•	•	•	•			
			Cairo	Alexandria	Tsmailia	Port-Said	Damietta	Suez	Frontier Districts	Behera	Dakahlia	Foundia	Gharbia	Menoufia	Qalinbia	Sharkia	Aswan	Assint	Berg Suef	Fayoum	Gerga	Giza	Minia	Qena			

.

Typhoid

Table No. 24.—Quarterly Distribution of Cases, Deaths and case-rates

PER 100,000 of Population, 1950

		111	100,0			rion, r					
Localities	First qu	uarter	Second	quarter_	Third	quarter	Fourth	quarter	То	TAL	Case rate rer
Locarines	С	Ð	С	D	С	D	С	D	С	D	100,000 Popula. tion
	100	4.0	70.47	#O	7.7.1.0	3.00	250	4.77	2.00	240	
Cairo	480	43	1047	78	1716			47	3,902		
Alexandria	101	9	162		304	43		11	734		73.0
Ismailia	6		8	2	25	5	3		42		30.0
Port-saïd	81		200	3	552			9			
Domietta	4	-	8		22		10	1	44		74.2
Suez	11		31	4	67	3	37		146	8	123.4
TOTAL Governorates	683	43	1456	95	2,686	227	1,105	69	5,£30	43.6	157.9
Frontier Districts	3	1	3		8	2	2		16	3	9 · 1
Behera	19	3	35	2	109	7	64	9	227	21	17.0
Dakahlia	21	8	48	6	89	10	39	7	197	31	12.9
Fouadia	1		7	1	. 10	1	1	1	19	3	<b>2·</b> 3
Gharbia	24	3	52	6	12)	29	50	_1	248	39	14.5
Menoufia	13	3	16	1	3.	3	17	6	85	13	6.5
Qaliubia	9	1	.27	5	96	10	41	. 8	173	30	23.1
Sharkia	13	3	14	1	43	9	28	4	98	17	7.1
TOTAL Lower Egypt	100	21	199	22	504	. 75	240	36	1,043	154	11.9
Aswan	1		4	2	1	0	6	_	12	2	3.9
Assiut	23	2	21	_	63	д	61	9	168	20	11.5
Beni-Sucf	4	_	4	_	15	1	11	1	34	2	5.2
Fayoum	8	2	28	2	43	9	16	5	95	18	13.3
Gerga	6	1	22	6	45	10	47	5	120	22	8.8
Giza	<b>2</b> 5	4	64	36	168	102	101	25	358	167	39·1
Minia	10	-	14	2	16	1	23	2	66	5	5.9
Qena	7	_	14	6	7	2	16	1	44	9	3.8
Total Upper Egypt	84	9	171	54	358	13 (	284	48	897	245	11 · 9
GRAND TOTAL	870	74	1.820	171	3,556	138	1,631	153	7,886	836	38.7

# Cerebro Spinal Fever

TABLE No. 25.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION

							<u> </u>		1		1 0
Localities	First	quarter	Second	quarter	Third	quarter	Fourth	quarter	Ton	'AL	Case rate per 100,000
Localities	С	D	C	D	C	D	C	D	C	D	Popula- tion
C											
Cairo	807	92	<b>3</b> 98	41	$\epsilon$ 0	14	42	6	1307	153	58.4
Alexandria	174	27	183	27	39	12	, 7	2	403	68	40.0
Ismailia	10	I	. 8	1	1		-		19	2	. 13 6
Port-Saïd	41	5	18		8		, 7	1	74	6	37.8
Damietta	3	2	4	1					7	3	11.8
Suez	27	2	15						42	2	35.5
Total Governorates	1,062	129	626	79	108	25	50	<b>.</b>	1,832	234	49·3
Frontier Districts	5	2	2			-	_	_	7	2	4.0
Behera	16	6	35	7	8	3	3		62	16	4.6
Dakahlia	24	3	24	2		1	2		50	6	3.3
Fouadia	4		1		_		_		5		0.6
Gharbia	51	4	76	16	13	5	8	3	148	28	8.7
Menoufia	9	1	12	5	_	1	1	_	22	~7	1.8
Qaliubia	27	4	10	4	6	2	2	_	45	10	6.0
Sharkia	35	8	37	1 7	. 1	2	3	2	76	23	5.5
Total Lower Egy, t	166	26	195	45	28	14	19	5	408	99	4.7
Aswan	4	1	6	2		_			10	0	3.2
Assiut	34	6	29	4	3	1	4	1	79	12	4.8
Beni-Suef	4	1	3	1					. 7	2	1 · 1
Fayoum	3	1	1	1				_	4	2	0.6
Gerga	13	7	19	2	3	3	7	_	42	12	3.1
Giza	53	18	41	10	-	5	5	_	99	43.43	10.8
Minia	7	4	8	5	1	1	_		16	10	1.4
Qena	1	0	1	]			2		6	1	0.5
TOTAL Upper Egypt	119	38	168	26	9	19	18	ſ	254	75	3·3
GRAND TOTAL	1,352	195	931	141	145	50	93	15	2,521	401	12.4

# Acute Pneumonia

Table No. 26 —Quarterly Distribution of Cases, Deaths and Gase-rates per 100,000 of Population.

PER 100,000 OF TOPOLATION.												
T 1:4.*	First	quarter	Second	quarter	Third o	quarter	Fourth (	quarter	То	T <b>AL</b>	Case rate per	
Localities	С	D	- C	D	С	D	С	D	С	D	100,000. Popula- tion	
Cairo	644	416	585	369	420	327	494	317	2163	1429	96.7	
Alexandria	725	437	849	336	751	338	654	298	2979	1409	296.2	
Ismailia	11	75	6	51	6	41	7	66	30	233	21.4	
Port-Saïd	72	10	113	11	37	14	66	14	288	49	147.2	
Damietta	8		5		4	2			17	2	28.7	
Suez	42	7	39	5	25	4 6	19		125	18	105.7	
											100 1	
Total Governorates	1522	945	1597	772	1243	728	1240	695	5602	3140	149.0	
Frontier Districts	6	1	4	1	5	2	4	2	19	6	10.8	
Behera	9	9	16	13	11	8	18	11	54	41	4.0	
Dakahlia	13	7	17	8	9	6	7	6	46	27	3.0	
Fouadia	8	10	4	4	4	3	1		17	17	2.1	
Gharbia	32	112	44	82	15	21	23	35	114	250	6.7	
Menoufia	8	16	11	11	2	5	4	18	25	50	2.0	
Qaliubia	35	9	23	8	14	20	9	12	81	49	10.8	
Sharkia	3	16	12	21	3	5	4	20	22	62	1.6	
_												
TOTAL Lower Egypt	108	179	127	147	58	68	66	102	359	496	4.1	
Aswan	5	41	1	113	1	45	1	46	8	245	2.6	
Assiut	27	16	45	30	14	25	12	16	98	87	6.7	
Beni-Suef	4	29	2	18	1	13	1	11	8	71	1.2	
Fayoum	8	5	13	5	3	4	9	4	33	18	4.6	
Gerga	27	38	14	11	10	14	8	28	59	91	4.3	
Giza	30	26	42	39	32	34	18	13	122	112	13.3	
Minia	10	5	11	9	3	3	10	2	34	19	3.0	
Qena	14	42	13	18	3	8	14	30	44	98	3.8	
Total Upper Egypt	125	202	141	243	67	146	73	150	406	741	5.3	
GRAND TOTAL	1761	1327	1869	1163	1373	944	1383	949	6386	4383	31.3	

# Chicken Pox

Table No. 27.—Quarterly Distribution of Cases, Deaths and Case-rates per 100,000 of Population.

		· · · · · · · · · · · · · · · · · · ·									
Localities	First qu	arter	Second	quarter	Third	quarter	Fourth	quarter	Тот	AL	Case rate per 100,000
Hotalijios	C	D	C	D	C	D	C	. D	$\mathbf{c}$	D	Popula.
- /											
Cairo	254	1	380	1	26		71		731	2	32.7
Alexandria	195	-	327		13		36		571		56.8
Ismailia	_		1		1	_			2		1.4
Port-Saïd	55		125		$\begin{vmatrix} 2 \end{vmatrix}$		14		196	_	100.2
Damietta	<u>.</u>		5			`	_		5		8.4
Suez	21	_	34		1		2		58		49.0
								, , , , , , , , , , , , , , , , , , , ,			
Total Governorates	525	i	87.2	1	43		123	_	1563	2	41.6
Frontier Districts	32	,	3	_	2				37		21.1
Behera	5	1	52		_		12		69	1	5.2
Dakahlia	4	_	9	•	_	a	6		19	_	1.2
Fouadia	4	_	7		4	, 			15		1.9
Gharbia	34		38	-	2		12	_	86		5.0
Menoufia	5		9		1		4	_	19		1.5
Qaliubia	6		16		_		12		34		4.5
Sharkia	16		38		1	· <u> </u>	3	_	58		4.0
TOTAL Lower Egypt	74	1	169		8	_	49		300	1	3.4
f Aswan	_		3						3		1.0
<b>A</b> ssiut	2	therefore the control of the control	10	-	_				12		0.8
Beni-Suef	4		8		_	_	1	1	- 13	1	2.0
Fayoum	2	_	14	_	2	_	1		19	_	2.7
Gerga	9	-	3		_	_	_		12	-	0.9
Giza	24	1	20		_	-	27		71		7.8
	3		8	_		_			11	<u> </u>	1.0
Qena	2		_		_	-	_	_	2		0.2
Total Upper Egypt	46	1	66		2		29	1	143	2	1 · 9
GRAND TOTAL	677	3	1110	1	55	_	201	1	2043	5	10.0

Measles

Table No. 28.—Quarterly Distribution of Cases, Deaths and Case-rates

Per 100,000 of Population.

			1111111		. 1010		•	1			
1	First	quarter	Second	quarter	Third	quarter	Fourth	quarter	To	TAL	ra'e pe
Localities	Ċ	D	C	D	C	D	C	D	C	D	Popula
							,			-	
Cairo	31 -	8	192	101	219	108	144	43	586	260	26.2
Alexandria	23	1	367	18	337	34	453	7	1,180	60	117.3
Ismailia		1	<del>-</del>	2	1	1	_	_	1	4	0.7
Port-Saïd	1		17	2	17	3	50	4	85	9	<b>4</b> 3.5
Damietta				_				-			
Suez	4				1	_	3	_	8		6.8
TOTAL Governorates	59	10	576	123	. 575	146	659	54	1,860	333	59.5
Frontier Distric s	3	3			7		89	7	99	10	56.4
Behera	20	2	34	13	4	4	$\frac{1}{2}$		60	19	4.5
Dakahlia	12		13	6	2	_	1		28	.6	1.8
Fouadia			9		-		_		9	_	1.1
Gharbia	8	-	18	1	.29		7		62	1	3.6
Menoufia	29	12	20	3	2		120	8	171	23	13.7
Qaliubia			6		4		1		11	_	1.5
Sharkia		_	7		1	-	9	5	17	5	1.2
Total Lower Egypt	69	14	197	23	42	4	140	13	358	54	4.1
Aswan		_				2	_			2	_
Assiut	15	1	7	11	5	3	5	4	32	19	2.2
Beni-Suef	7	_	13		8	1	1	_	29	1	4.4
Fayoum	4		7	_	2	_	49	14	62	14	8.7
Gerga	49	35	5	_	20	5	13	1	87	41	6.4
Giza	2	_	13	6	6	7	11	2	32	15	3.5
Minia	11	5	178	34	141	8	49	7	379	54	33.7
Qena	30	13	84	32	12	9	4	1	130	55	11.1
TOTAL Upper Egypt	118	54	307	83	194	35	132	29	751	201	9.7
GRAND TOTAL	249	81	999	229	818	185	1,011	193	3,068	598	15.0

Diphtheria

Table No. 29.—Quarterly distribution of Cases, Deaths and Case-Rates per 100,000 Population. -

		- 4	C		Third	212 - ut on	Fourth q	uantor	Ton	CAT	Case
Localities	First	quarter	Second	quarter	Inira -	quarter	Fourth q				rate per 100,000
	С	D	C		C	D	C	D 	C	D	Popula- tion
Cairo	110	26	94	19	149	29	185	46	538	120	24.1
Alexai dria	69	15	23	4	53	18	112	35	257	72	25.6
Ismailia	2	1	1		3		7	1	13	2	9.3
Port-Saïd\	16	1	13		4	2	9	2	42	5	21.5
Suez	2	1				1	1	1	3	3	5.1
Damietta	8	1	3	1	2	1	7	5	20	8	16.9
Total Governorate.	207	45	134	21	211	51	321	90	873	210	23·3
Frontier Districts	2	1		_		-	1	2	3	3	1.7
B hera	4	2	6	2	9	4	18	9	37	17	2.8
Dakahlia	7	1	5		13	8	8	6	33	15	2.2
Fou dia			3	2	5	4	3	1	. 11	7	1.4
Gharbia	9	8	18	12	32	32	49	29	108	81	6.3
Menoufia	4	3	5	1	12	17	12	15	33	36	2.7
Qaliubia	6	2	4	5	20	16	_ 29	23	59	46	7.9
Sharkia	8	5	14	2	10	4	22	8	54	19	3.9
	38	21	55	24	101	85	148	91	335	221	3.8
TOTAL Lower Egypt											
A: wan	1	1	2	1					3	2	1.0
A: siut	10	3	9	6	6	3	26	11	51	23	3.5
Beni-Sucf		1	2	1	4	2	8	3	14	7	2.2
Fayoum	5	4	_		3	3	14	12	22	19	3.1
Gerga	2	2	2	4	3	3	5	4	12	13	0.9
Giza	7	9	8	9	13	28	14	24	42	70	4.6
Minia	4	3	3	2	7	4	12	13	26	22	2.3
Qena	1	1	3	2	1	1	3	3	8	7	0.7
Total Upper Egypt	30	24	29	25	37	44	82	70	178	163	2 · 3
GRAND TOTAL	277	91	218	73	349	180	545	253	1,389	597	6.8

Dyesentery

Table No. 30— Quarterly Distribution of Cases, Deaths and Case rates

Per 100,000 of Population

Localities	First	Quarter	Second	Quarter	Third	Quarter	Fourtl	n Quarter	T	OTAL	Case- rate per 100,000
Localities	С	D	С	D	C	D	C	D	c	D	Popula- tion
Cairo	18	12	43	12	77	42	41	21	179	87	8.0
Alexandria	30	8	83	12	109	14	39	13	261	47	26.0
Ismailia			_	1	1	2	1	3	2	6	1.4
Port-Said	7		11		10	1	4	2	32	3	16.4
Damietta:	_					-		1	_	1	
Suez	6		31	<del></del> .	23	_	7	1	67	1	56.6
Total Governorates	61	20	168	25	220	59	92	41	541	145	14.4
Frontier Districts	11		17	_	10	1	14	1	52	2	29.6
Behera	3	3	2		1	3	1	1	7	7	0.5
Dakahlia	1		7	1	8		5		21	1	1.4
Fouadia	7		5		10		7	2	29	2	3.6
Gharbia	9	1	7	3	8	3	1	1	25	8	1.5
Menoufia		1	7		4	1.	1	1	12	3	1.0
Qaliubia	1	<del></del>	7		. 2		5	2	15	2	2.0
Sharkia	1	1	9.	2	11		42		63	3	4.6
TOTAL Lower Egypt	22	6	44	6	44	7	62	7	172	26	2.0
Aswan	3		2	_	2	_	_		, 7	_	2.3
Assiut	5	4	18	$2 \mid$	15	5	10	8	48	19	<b>3</b> ·3
Beni-Suef	$2 \mid$		2	. —	2		_		6		0,9
Fayoum	28		42	_	6	_	4		80		8.4
Gerga	1	1	5	_	8	1	5		19	2	1.4
Giza		1	1	1	4	1		2	5	5	0.5
Minia	39	1	35	_	29	2	107		210	3	18.7
Qena	3		15		20	_	12	1	50	1	4.3
TOTAL Upper Egypt	81	7	120	3	86	9	138	11	425	<b>30</b>	5.2
GRAND TOTAL	175	33	349	34	360	76	306	60	1,190	203	5.8

Influenza

Table No. 31.—Quarterly Distribution of Cases, Deaths and case-rates

Per 100,000 of Population.

	First o	quarter	Second	quarter	Third	quarter	Fourth	quarter	То	TAL	Case rate per
Localities	С	D	C	D	C	D	C	D	С	D	100,000 Popula- tion
Cairo	<b>58</b> 9	5	834		969	2	390	2	2782	9	124 · 4
A1 1 1	375	1	618	garage 4-4	740		424	1	2157	2	214.5
T'1'-	$\frac{3}{2}$		13		16		4	_	35		25.0
	156	2	221		204	gamentenag	96		677	2	346.1
Port-Saïd	14	_	10	georgeorie@s	12		5		41		69.1
Suez	11		23		19		13		66		55.7
Damietta	11										29.1
TOTAL Governorates	1147	8	1719		1960	2	932	3	5758	13	153 · 3
Frontier Districts	5		10		5	· 		_	20	_	11.4
Behera	15		49	1	40	1	29		133	2	9.9
Dakahlia	49	1	55	1	46	1	2 <b>2</b>	1	172	4	11.3
Fouadia	21		20		16		5		62	_	7.7
Gharbia	<b>4</b> 3		103	1.	96	1	39	1	281	3	16.2
Menoufia	20		38	1	33	_	23	<u> </u>	114	1	9.2
Qaliubia	28		70	1	82	2	<b>5</b> 3	1	233	4	31.1
Sharkia	13		29		31	5	-13	1	86	6	6.3
Total Lower Egypt	189	1	364	5	344	10	184	4	1081	20	12.4
Aswan	11		7		11		10	1	39	1	12.6
Assiut	<b>5</b> 8	1	56	2	80	1	45	1	239	5	16.4
Beni-Suef	5		22	7	19	1	11	2	57	10	8.7
Fayoum	7		6	2	8	_	7	1	28	3	3.9
Gerga	10	_	16	2	19		22		67	2	4.9
Giza	20		85		90		38		233	_	25.5
Minia	35	2	61	6	<b>2</b> 8	4	22	1	146	13	13.0
Qena	26	_	<b>3</b> 5	1	23	1	29	2	113	4	9.6
Total Upper Egypt	172	3	288	20	278	17	184	8	922	38	11.9
GRAND TOTAL	1513	12	2381	25	2587	19	1300	15	7781	71	38.2

# Malaria New

Table No. 32.—Quarterly Distribution of Cases, Deaths and Case-Rates

Per 100,000 of Population

	First q	uarter	Second	quarter	Third o	quarter	Fourth	quarter	To	TAL	Case rate per
Localities	C	D		D	C	D	C	D	С	D	Population
Cairo	14	1	122	1	<b>2</b> 39		134	2	<b>5</b> 39	4	22.8
Alexandria	7		18		48	1	18	_	91	1	9.0
Ismailia	5		13	<b>-</b>	21		17	_	56		40.0
Port-Saïd	_		21		37		19	?	77		39.4
Damietta	_		3		10		1		14		23.6
Suez	—		3	, <u> </u>	8	_	1		12	_	10.1
Total Governorates	26	1	180	1	363	1	190	2	759	5	20 · 2
Frontier Districts	14	_	6		10	_	123	_	153	_	87.1
Behera	1	_	6	1	42	1	139	1	188	3	14.0
Dakahlia	9		36	1	135	_	91	- 1	271	1	17.7
Fouadia	74		25	1	65		18		182	1	22.5
Gharbia	3		20		66	1	40		129	1	7.6
Menoufia	2		4	1	13		7	2	26	3	2.1
Qaliubia	9		102	_	217	_	90		418		55.8
Sharkia	25		264		428	_	208	-	925	_	67 · 4
TOTAL Lower Egypt	123		457	4	966	2	593	3	2,139	9	24.2
Aswan	_		_	_		_		1	_ 7	<b>.</b>	1
Assiut	1	_	10		32		29		72	_	4.9
Beni-Suef	1		2		100		136		239	_	36.5
Fayoum	12		9		13	_	.26	1_	60	_	8.4
Gerga		•	1		7	_	4		12	1	0.9
Giza	7	_	65	_	116	_	66	1	254		27 · 7
Minia	. 10	_	142	game strong	201		162		515		45.8
Qena	1		4	Africa Andrian sub	15		28	SA*	48		4.1
TOTAL Upper Egypt	32		233		484	_	481	1	1,280	1	15.6
GRAND TOTAL	195	1	876	5	1,823	3	1,357	6	4,251	15	20.8

# Whooping Cough

Table No. 33.—Quarterly Distribution of Cases, Deaths and Case-Rates

PER 100,000 of Population

	First q	uarter	Second	quarter	Third q	uarter	Fourth q	quarter	Тота	AL	Case rate per
Localities	C	D	С	D	C	D	C	D	c	D	100,000 Popula- tion
Cairo	32	3	40	1	31	4	33	3	136	11	6.1
Alexanadria	72	6	99	8	68	3	28	_	267	17	26.6
Ismailia	3	1	<u></u>			-		_	3	1	2.1
Port-Saïd	_	_		<del></del>	4	_	1	1	5	1	2.6
Damietta	_	_					_	_	_	_	
Suez	1	-	10	_	1	_		-	12		10 · 1.
Total Governorates	108	10	149	9	104	7	62	4	423	30	11.3
Frontier Districts	_			_	_	_		_			
Behera	5	_	15	1	_	Specialists	1		21	1	1 · 6
Dakahlia	1	_	2	_	_	1			3	1	0.3
Fouadia		_	·—		_	_	_			_	_
Gharbia	30	_	1	1	1		3	1	35	2	2.1
Menoufia	5		3	_	2	_	19	3	29	3	2.3
Qaliubia	5	1	1		_		_		6	1	0.8
Sharkia	2	, 1	12	_	2	_	4		20	1	1.5
			-		5		04				
Total Lower Egypt	48	2	34	2	3	1	27	4	114	9	1.3
Aswan				_	_		7		7		2 3
Assiut	6		19	7	_		2	1	27	8	1.8
Beni-Suef		_		_	_	_		_			_
Fayoum	19	_	67	_	6	_	2	_	94		13.2
Gerga	5	_	_	_	_	_	_	_	5	-	0 4
Giza	132	2	60	3	4		51	1	247	6	27.0
Minia	8	_	16		2		1	_	27	_	2 4
Qena	36	2	9	and the same of th	-		_		45	2	3.8
Total Upper Egypt	206	4	171	10	12		63	2	452	16	5 9
GRAND TOTAL	362	16	354	21	121	8	152	10	989	55	4.8

# Chapter III.-Frontier Districts Medical Service.

#### Health Statistics:

According to the 1947 census, the population of the frontier districts was 185,187.

During the year under review, 7,884 births or 4.2 per thousand of the population were recorded as against 4.4 per thousand in 1949. Deaths totalled 2,654 or 1.43 per thousand of the population as against 1.58 per thousand in the previous year.

The lower death rate this year is attributed to secret burialpr actised by bedouins scattered all over the deserts, especially the Western and Sinai deserts.

Infantile deaths under one year of age numbered 1,026 i.e. 38°/o of total deaths; main causes being congenital debility and enteritis. In Tor town with a population of 1,550 inhabitants, 58 births and 62 deaths were recorded during the year. The high mortality is explained by the recording of deaths occurring among pilgrims in segregation at Tor lazaret.

## Preliminary Anti Small Pox Vaccination:

Of a total of 7,523 infants receiving anti small pox preliminary vaccination, 6,699 or 89°/o were successful.

#### Protective Measures and Disinfection:

These duties have so far been performed by inexperienced hospital personnel. It has been decided to appoint ten disinfectors to these districts. Five of these have already been appointed.

#### Infectious Diseases:

With the exception of 12 cases recorded in Amria district, no cases of typhus were notified from all frontier districts. Seven cases of cerebro spinal fever were reported: 5 in Kantara East, one in Amria and one in Kharga oasis. Measles spread in Kharga oasis and Wadi Natroun, 101 cases having being reported in the former and 40 cases in the latter. 121 cases of malignant malaria were recorded in Siwa. Table No. 34 gives details of the incidence of infectious diseases in Forntier Districts during 1950.

#### General Vaccination:

During the year, the following vaccinations were done in all the Frontier Districts: 15,092 against typhoid, 1,859 against diphtheria and 196 against cholera. None were done against plague. The following table No. 45 gives details of these vaccinations.

## Drinking Water Supplies in Frontier Districts:

The population is divided into two sections: one inhabits the oases and obtains his drinking water from natural artesian wells (springs) where water is available day and night. Water is carried by the inhabitants to their homes by their own means. The other section consists of bedouins. Those of the Western desert obtain their drinking water from filtered water mains running from Alexandria to Mersa Matrouh. At the end of the pipes at Mersa Matrouh, the water pressure is small and additional water is obtained from Roman cisterns. At Sidi Barrani, water is drawn from underground wells. Both the latter sources are unfiltered.

In the Eastern desert, the population in Arish draw their drinking water from artesian wells. In Kantara East, there is a filtered water plant.

At Abu Zenema and Hurghada, the population, mostly personnel of industrial enterprises, obtain their drinking water from Suez filtered Water Works by means of water tanks on vessels traversing that region.

Quseir, Safaga and Sollum areas use condensers for turning sea water for drinking purposes.

## Sewage Disposal:

No public sewage systems exist in the frontier districts. In the oases, the population use closed pits, the contents of which when filled up, are removed to gardens for use as manure.

Bedouins living in tents ease nature in the open.

In desert areas where industrial enterprises have set up their installations, the habitations of their personnel are provided with pail systems. Pails are emptied in ditches which are filled up. Refuse is disposed of by burning in incinerators or, where none exist, is thrown in the open.

## Birkas:

These are formed where natural springs exist at Wadi Natroun, Arish, Tor, Siwa and Baharia oases. At Dakhla and Kharga oases, birkas are formed from water left over after rice irrigation. No birkas were filled in during the year; the spraying with malariol carried out by the Malaria Section being considered adequate.

## Foodstuffs:

The small number of samples of foodstuffs taken for examination may be explained by: (a) the low economic level in frontier districts which does not encourage the establishment of large premises with large capitals and requiring sanitary requirements and (b) the lack of sanitary overseers to supervise the districts. Only three overseers have been appointed during the latter half of this year.

# Municipal and Village Councils:

A few municipal and village councils have been set up in some of the districts. The first is only a few years old. The general sanitation of the districts, which is a primary duty of these councils have, before their setting up, been carried out by scavengers of the public health offices and are still carried out by the same scavengers. Nor have these councils done anything about main water supplies.

#### Cemeteries:

There are no properly demarcated cemeteries in the frontier districts. The Arabs bury their dead wherever they happen to be in the desert at the time.

## Unhealthy Establishments:

Table No. 38 shows an increase in the number of unhealthy establishments licensed during this year and the year before at Arish, Kharga Oases, Amria and Kantara East. These are the localities to which sanitary overseers have recently been appointed.

#### Slaughter Houses:

With the exception of Sollum, Hammam and Abu Zenema, all frontier districts medical units have slaughter houses under their supervision. So far, these are few in number and exist in localities having municipal or village councils. It is hoped that more will be provided as and where municipal or village councils are set up.

## Medico-legal activities:

Table No. 40 gives details of medico legal cases in the Frontier Districts. It will be observed that the fatal and serious criminal cases are very few in comparison with the total cases. Where no cases were recorded, no medical officers were available throughout the year.

## Propaganda:

Propaganda is not attractive in frontier districts since it consists of sermons and lectures. It is suggested that two mobile propaganda units with a cinema apparatus would be more effective by touring the districts.

#### Venereal Diseases:

These are seldom met with in the in-patient or out-patient clinics, which may be explained by either the ignorance of the people, their practice of not submitting such cases to medical officers or the scarcity of these diseases among the population.

#### Medical Personnel:

Table No. 41 gives the number of medical officers, midwives, sanitary barbers and dayas in service in the frontier districts.

## Hospitals:

There are 15 state and private hospitals in operation in the various frontier districts. These have an accommodation of 221 beds and employ 16 medical officers. Six hospitals and five medical officers belong to private firms. A total of 2,899 in-patients and 103,092 new out-patients were treated at these hospitals during the year. The latter figure, however, does not include patients treated by the out-patient dispensaries annexed to public health offices to render treatment in localities having no hospitals.

For full details, please see table No. 44.

## Public Health Offices Provided with Dispensaries:

Seven of the health offices are provided with dispensaries which have given treatment to some 34,783 patients. Treatment is free of charge in all frontier districts even when private concerns exist. This number does not include patients treated at hospital outpatient departments.

Table No. 46 gives details of these health offices and patients treated by each.

selogisyaI		9
sirslald tangilald		124
BeirslaM ngineE	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>%</b>
B. Dysentery		I
Am. Dysentery		3
төтөі ІвтэдтэиЧ	-     <sub>©1</sub>	€
gzuənhnI	14 10 10 10 10 10 10 10 10 10 10 10 10 10	\$
Chicken Pox		<b>15</b>
T.B. of the Respiratory Sys.		\$3
sunstall .		
RaidaH		
Glanders		_
Leprosy		_
Yellow Fever		.
Pneumonia		25
sdunM	69	2.
nguoO gaiqoodW	4	4
zə[zzə]/[	101 101	142
Birehthqid		4
Encephalitis Lethargiea		
Scarlet fever.		
Para Typhoid		A/D
Typhoid		91
Cerebro Spinal fever		<u> </u>
Relapsing Pever		
xs1d4nA		.
xoq llam2		year
Турћиз	12	128
Plague		· I
Cholera		
	Sollum	Total

## TABLE No. 35.—FOODSTUFFS

Locality	Samples taken for analysis	Foodstuffs condemned with consent of owners
Quseir	3 milk	Wone
${\bf Arish} \;\; \dots \;\; \dots \;\; \left. \right. \qquad \left. \left. \right. \right. \right. \left. \left. \right. \right. \left. \left. \right. \right. \left. \left. \right. \right. \right. \left. \left. \right. \right. \left. \left. \right. \right. \right. \left. \left. \left. \right. \right. \right. \left. \left. \left. \right. \right. \right. \left. \left. \left. \right. \right. \right. \right. \left. \left. \left. \left. \right. \right. \right. \right. \left. \left. \left. \left. \right. \right. \right. \right. \left. \left. \left. \left. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \left. \left. \left. \left. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left. \left.$	1 cheese 1 masli 1 aerated water	Wone
Kharga oases {	3 masli 2 cheese	16 tins cherry, sauce and sardines 50 Kilos white cheese
Amria	1 flour 3 aniseed 3 tea 2 oil 1 masli 1 coffee 3 red pepper	4 tins preserved foods 43 kilos vegetables and fruits 6 melons 20 pieces taamia
Kantara East	1 cheese 2 vegetable masli 1 aerated water 1 masli 2 flour 1 bread 2 red pepper 1 coffee 1 starch 7 milk	Wone
Hurghada	1 flour	Wone

## TABLE No. 36.—MUNICIPAL AND VILLAGE COUNCILS ACTIVITIES.

Locality	Activities
Quseir	Village council employs 3 scavengers for general sanitation in conjunction with scavengers of the P.H.O.
Arish	Municipal council does not assist in sanitation. All work is done by scavengers of the P.H.O.
Kharga oases	ditto
Amria	Village council supervises sanitation with the assistance of scavengers of the P.H.O
Siwa	ditto
Matrouh	Municipal council does not assist in sanitation. All work is done by scavengers of the P.H.O.

## TABLE No. 37.—CEMETERIES

L	ocali	ity					No. of Cemeteries approved			
Quseir ,	•••	•••	• • •	• • •	•••	• • •	1			
Hammam	•••	•••	•••	• • •	• • •		1			
Wadi el Natroun	•••	• • •	• • •	• • •	• • •	• • •	. 4			
Safaga		•••	• • •	•••	• • •	•••	4			
Arish	•••	•••	•••	• • •	• • •		1			
Kharga oases	•••	•••	• • •	•••	•••	•••	7			
Amria	•••	• • •	• • •	• • •	• • •	•••	1			
Kantara East	•••	• • •	• • •	• • •	•••		5			
Tor	• • •	• • •	•••	• • •	• • •		3			
Hurghada	•••	• • •	•••	• • •	•••	• • •	3			
Dakhla oases	• • •	• • •	•••	• • •	• • •	•••	19			
Siwa	•••	• • •	• • •	• • •	• • •	•••	7			
Baharia oases	•••	•••	• • •		• • •	•••	7			
Mersa Matrouh	•••	• • •	• • •	•••	•••	•••	2			
			To	ral .	•••	•••	65			

## TABLE No. 38.—UNHEALTHY ESTABLISHMENTS

I,	ocalit	У					Establishments licensed during this year and the year before	Total licensed establishments.
Tor	•••	•••	•••	•••			1 8 209 14 11 85 2 12	13 81 209 131 68 74 16 21
			То	TAL	•••	• • •	342	614

## Table No. 39. -Slaughter-houses

Loca	dity				Slaughter-houses	Slaughter outposts			
Sallum Sidi Barrani Quseir	•••	•••	•••	•••	1	demolished during the war and has not been repaired			
$\mathbf{H}_{ammam}$ $\mathbf{D}_{abaa}$	•••	•••	•••	•••		1 —			
Wadi el Natroun Safaga Arish	•••	•••	•••	•••	  1	$\frac{1}{2}$			
Kharga oases Amria	•••	•••		• • •	1	1			
Kantara East Tor Hurghada	•••	•••		• • •		$\frac{2}{1}$			
Abu Zenema Dakhla oases	•••	•••	• • •	•••		13			
Siwa Baharia oases Mersa Matrouh	•••	•••	• •••	•••	1 1 1	2			
		TOTAL		***	7	25			

Table No. 40.—Medico Legal Cases

Locality		Slight	Cases	Serious	Cases	Fatal	Cases	Tor	TAL
Locaitty		Accidental	Criminal	Acc.	Crim.	Acc.	Crim.	Acc.	Crim.
Sellum Sidi Barrani Qureir Hammam Dabaa Wadi Natroun Safaga Arish Kharga oases Amria Kantara East Tor Hurghada Ab i Zenema Dakhla oases Siwa Baharia oases Mersa Matrouh		245 20 10 112 17 23 151 86 222 - 2 - 35 34 - 80	- - - - 120 - - - - - - 12 14 - 40	5 6 5 - 8 - 30 15 - - - 11 1 1 55	10 	- 3 1 4 - 8 4 9 - 3 - 1 2 - 20	- - 1 - - 7 - 2 25 - - - - - 5	235 27 19 112 25 31 185 110 222 - 5 - 47 37 1 155	1 - - 137 - 137 - 2 25 - - - 17 14 - 50
Total	• •••	1,037	193	137	20	55	40	1,229	253

Table No. 41.—Medical Officers, Midwives, Sanitary Barbers, etc.

Loca	lity				Medical Officers	Dentists	Midwives	Sanitary barbers	Dayas	Remark
Sollum	•••	• • •	• • •					1		
Sidi Barrani	•••	• • •	•••		·			2		
Quseir	• • •	• • •	• • •		1	1	1			
Hammam	•••	• • •						1		
Dabaa	• • •	• • •			1			2		
Wadi Natroun	• • •				1		-	1	1	
Safaga	• • •	• • •	• • •		1	·		1		
Arish	•••	• • •	• • •	•••	1		_	2	7	
Kharga oases	•••	• • •		• • •	1		, 1	8	6	
Amria	•••	•••		*	1			5		
Kantara East	•••	• • •	• • •	• • •	1	—	—	1	7	
Tor	•••	• • •			1			1	-	
Hurghada	•••	• • •		• • •	1		3		1	
Abu Zenema	•••	•••	• • •		1				-	
Dakhla oases	• • •	• • •	• • •		1		1	14	21	
Siwa	•••	• • •	• • •	• • •	1		1	3		
Baharia oases	•••	• • •	• • •	• • •	·	-		7	5	
Mersa Matrouh	•••	•••	•••	•••	1	-	1	1	-	
	To	TAL	•••	•••	14	1	8	50	58	

# TABLE No.42.— WATER SUPPLIES.

•••	•••	•••	•••			
•••	•••			• • •	•••	Sea water condenser
•••		•••	•••	•••	•••	Underground water cisterns
	•••	•••	•••	•••	•••	Sea water condenser
•••	•••	•••	•••	•••		Alexandria-Mersa Matrouh water main
•••	•••	•••	•••	•••	•••	)) )) )) )) )) )) )) )
•••	•••	•••	•••	•••	•••	Artesian wells without filters
•••	•••	•••	•••	•••	•••	Sea water condenser
•••	•••	•••	•••	•••	• • •	Artesian wells without filters
•••	•••	•••	•••	•••	•••	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
•••	•••	•••	• • •	•••		Alexandria-Mersa Matrouh water main
•••	•••	•••	•••	•••	•••	Pure water works with ten filters
•••	•••	•••	•••	•••		Artesian well in the lazaret
•••	•••	•••	•••	•••	• • •	Suez water mains conveyed in vessels
•••	•••	•••	•••	•••	• • •	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
•••	•••	•••	•••	•••	• • •	Artesian wells without filters
•••	•••	•••	•••	• • •	•••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
•••	•••	•••	•••	• • •	•••	1 22 22 22
•••	•••	•	•••	•••	•••	Alexandria water main and artesian wells

## TABLE No. 43.—BIRKAS

Locality					Number of Birkas	Filled in during the year				
Sollum	•••	•••	•••	•••	None {	no birkas filled in in these local ities during the year.				
Sidi Barrani	•••	•••	•••	•••	"					
Quseir	•••	•••	• • •	•••	3,9					
Hammam	•••	•••	•••	• • •	,,	_				
Dabaa	•••	•••	•••	• • •	,,					
Wadil Natroun	•••	•••	•••	• • •	Six Birkas					
Safaga	•••	•••	•••	• • •	None					
Arish	•••	•••	•••	•••	3 birkas					
Kharga oases	•••	•••	• • •		None					
Amryia	• • •	•••	• • •	• • •	,,					
Kantara East		•••	•••	• • •	a birka formed from overflowing cisterns of houses.					
Tor	•••	•••	•••	• • •	3 birkas	•				
Hurghada	•••	•••	•••	• • •	None					
Abu Zenema	•••	•••	•••	• • •	<b>,</b> ,					
Dakhla oases	• • •	• • •	•••	• • •	temporary birks formed from					
Siwa		•••	***	• • •	110 birkas					
Baharia oases	• • •	•••	•••	• • •	89 birkas					
Mersa Matrouh	•••				Vine					

TABLE No. 44. - HOSPITALS.

Locality	No. of	Hospitals	No. of beds	No. of I	Patients	No. of Medical	
	State Private		110. Of botts	Out-pts	In-pts	Officers	
Sollum Sidi Barrani Quseir Hammam Dabaa Wadi El Natroun Safaga Arish Kharga oases Amria Kantara East Tor Hurghada Abu Zenema Dakhla oases	1 1 1 - - 1 1 1 - -	1 - 2 - 2 - 2 1	- 34 - 20 20 18 12 - 52 10 16	5,441 38,132 21,726 7,779 — 19,000 — 2,851	71 147 221 36 - 230 - 109		
Siwa Baharia oases	10	6	21 8 12 	1,963 165 16,573 119,665	3 - 180 - 3,079	1 1 17	

Table No. 45.— General Vaccination.

Locali	ty			Against typhoid	Against plague	Against diphtheria	Against cholera
Sollum Sidi Barrani Quseir Hammam Dabaa Wadi El Natroun Safaga Arish Kharga Amria Kantara East Tor Hurghada Abu Zenema Dakhla oases Siwa Baharia oases Mersa Matrouh						10	
	Тота	L	•••	15,092		1,859	196

TABLE No. 46.—Public Health Offices Provided with Dispensaries.

Locality	Health Offices with Dispensaries	Patients treated free of charge	Remarks
	,		
Sollum	_		
Sidi Barrani	1	1,690	A hospital exists
Quseir	_		
<b>Ha</b> mmam	1	5,232	
<b>Da</b> baa	1	1,363	
Wadi el Natroun	1	8,275	
Safaga			,
<b>Ari</b> sh			22 22
Kharga	_		
Amria	mantang		
Kantara East	1	17,226	22 22
Tor	1	907	, , , , , ,
Hurghada	1	1,090	
Abu Zenema	_		,, ,,
Dakhla Oases	_		" "
Siwa			, , , , , , , , , , , , , , , , , , , ,
Raharia Oases			" "
Marca Matrouh			"
			",
TOTAL	7	34,783	

## Chapter IV.—Nutrition.

# Annual Report of the Permanent Nutrition Committee and the Nutrition Section

## I.—Analysis of some Egyptian Foods:

TABLE No. 47.

Foodstuffs	Protein	Fat	Carbohy- drates	Moisture	Fibre	Ash
Standard			1.0.00			
Sweet potatoes, raw, red	0.34	0.365	19.66	73 65	5.4	0.585
" white	0.32	0.279	27.3	69.6	1.6	0.509
,, ,, boiled, red	0.33	0.22	18.68	74.85	$5 \cdot 3$	0.61
,, ,, white	0.31	0.216	25.13	71 · 97	1.55	0.51
,, ,, roasted, red	0.43	0.175	22.48	70.85	5.43	0.625
,, ,, ,, white	0.42	0.11	30.26	66 · 99	1.64	0.57
Nuts	$23 \cdot 5$	51.5	11.71	5.21	5.6	1.68
Melon seeds, brown	$34 \cdot 2$	48.5	8.81	2.7	3.19	_
Peanuts, native	23.9	41.65	26.18		-	_
Grapes, red, melouki	0.39		13.63	81.85	4.2	0.434
Pomegranates, Manfalouti	1.27	Traces	12.39	$82 \cdot 52$	3.39	0.42
Green beans, native	13.6	,,	1.9	83 · 05	0.8	0.59
,, ,, foreign	5.2	,,	12.7	79.9	1.5	0.67

#### II.—Dietary survey on night blindness in Siwa Oasis.

Last year, it came to the notice of the Ministry that night blindness was prevalent in Siwa Oasis following the appearance of a number of cases of Vitamin A deficiency. A unit of the nutrition section was delegated to investigate and carry out a clinical and dietary survey of the Oasis.

Here below are the results of the medical survey which was conducted on two stages:

A Commission headed by Porf. Ali Hassan, Technical Consultant of the Permanent Nutrition Committee, visited the Oasis about the middle of April and drew up a report on its findings. Following the report, a unit of the Nutrition Section was sent to the Oasis to conduct a comprehensive investigation and to treat the cases of night blindness. The unit was provided with a large quantity of Vitamin A. The results of the medical investigation are given hereafter:

#### . 1.—Night Blindness.

This disease was the primary object of the investigation. Clinical, and medical examination by means of the adaptometer carried out during April established the presence of certain cases. These were provided with Vitamin A. It was observed that during this season, the oasis lacked vegetables and fruits, the main source of Vitamin A. During May, the disease disappeared following the appearance of vegetables and fruits. A very high ratio of ophthalmic infection almost,  $100^{\circ}/_{\circ}$ , was also observed.

## 2.—Pellagra and Riboflavine Deficiency:

Two cases of Pellagra and four cases of riboflavine deficiency were encountered.

## 3.—Vitamin D and Calcium Deficiency:

Three pupils of the compulsory school demonstrated traces of old rickets. The condition of the teeth is illustrated by the following table:

Pupils:  $88 \, ^{\circ}/_{o} \mod -8 \, ^{\circ}/_{o} \ fair -7 \, ^{\circ}/_{o} \ poor.$ Girls:  $86 \, ^{\circ}/_{o} \ ,, -7 \, ^{\circ}/_{o} \ ,, -7 \, ^{\circ}/_{o} \ ,,$ Men:  $53 \, ^{\circ}/_{o} \ ,, -8 \, ^{\circ}/_{o} \ ,, -39 \, ^{\circ}/_{o} \ ,,$ 

#### Haemoglobin:

A high haemoglobin content in the blood was observed as shown by the following table:—

Table No. 48

4 0	Haemoglobin.	Per centage of Cases
Men	60-90 % 90-100 %	77.5 % 10 %
Girls	60–90 % 90–100 %	78 %

This high haemoglobin content is due to the absence of parasitic diseases.

## III.—Nutrition Survey of cases of chafing of face and hands at Sindibis area:

- A survey of the pupils of the compulsory school, both boys and girls, proved that about 39°/o of the pupils suffered from fissured lips and about 49% from chapped hands and face.

No symptoms of rickets were encountered, and the condition of the teeth was: 75 % good, 21% fair, and 4% poor.

Hoemoglobin content was 60-90% in 74 cases, 70-79% in 28 cases and 80% in one case.

Examination for parasites revealed that 71.7% had ascaris, 67.3% bilharzia and 12.8 had ancylostoma.

IV.—During the year, the Nutrition Section had proposed daily diets for certain categories, namely students of the Cadet and Constabulary school of the Police College. The following is the daily diet proposed:—

Table No. 49

	Cadets		Soldiers day	
Breakfast: Bread (special) Tea Sugar Milk Jam		$\begin{array}{c c} & \text{grams} \\ & 260 \\ & 1.5 \\ & 25 \\ & 50 \\ & 47 \\ & 47 \end{array}$	Bread (ordinary) Beans, stewed (medammes) Lentils Cotton seed oil	936 85 63 12
Cheese, white  Lunch and dinner:  Bread (Special)  Veal  Vegetables, fresh  Rice  Masli  Shreaded Wheat  Sugar (pudding)  Masli			Beef          Vegetables, fresh          Rice          Masli          Milk          Sugar (for morning milk)          ,,• (for pudding)          Starch       ,,	150 400 80 20 150 25 40 30

V.—Meals served by public kitchens in Cairo and the provinces as well as those in orphanages have also been modified by the Section.

#### The Permanent Nutrition Committee:

The Permanent Nutrition Committee undertakes research into the State of Nutrition in Egypt and takes measures to improve its standard.

The attention of the Committee is directed specially to the following problems:

- 1. The investigation of the causes of malnutrition, the diseases associated with modern civilisation and the causes of poor physique,
- 2. Determining the quantities of foods containing proteins, fats, sugar, and starches, vitamins and salts that are sufficient to keep the body in a state of equilibrium, and to maintain health under all conditions, taking into consideration foods produced in the country.
- 3. Study of the vitamins with special reference to their relation to rickets, pellagra, and other diseases. While searching for the causes of these diseases, their incidence and means of their prevention must be studied.
- 4. Nutrition surveys of groups, such as, school children, army, navy and air force, asylums etc., may be undertaken in the light of modern experience and knowledge.
- 5. Economic study of foodstuffs with the object of recommending adequate diets suitable for different incomes.
- 6. Studying the prices of essential foods and taking measures to make them available to all consumers.
- 7. Statistical survey of foods, with special attention to meats, (including poultry and fish), milk and milk products, eggs, cereals, etc., oils, fruits etc.

#### Composition of the Permanent Nutrition Committee:

The under Secretary of State

Chairman

Prof Ali Hassan, Ex-Dean of Faculty of Medicine, Technical Consultant.

Dr. Ahmed Abdel Nabi, D.G., Technical and Administrative Inspection Dept.

Technical Secretary

Prof. W. H. Wilson, Emeritus Professor of Physiology, Faculty of Medicine.

Dr. Mohamed-Abdou Abbassi, Professor of Public Health and Preventive Medicine, Farouk University,

Dr. Ismail Mortada, Ex Medical Disseases Specialist,

Under Secretary of State for Industrial Affairs, Ministry of Commerce and Industry Representative of Egyptian Army Medical Services,

Director General, Prisons Department's Medical Services

,, , Department of Social Hygiene, Ministry of Public Health, , , of School Hygiene, Ministry of Education,

Senior Chemist, (Chemical Section) Ministry of Agriculture,

Director, Chemical Section, Public Health Laboratories Dept.

Professor of Bio-chemistry, Faculty of Medicine,

Director, Food Control Section, M. P. H.

,, Nutrition Section,

A Veterinarian for animal wealth, Ministry of Agriculture,

Lecturer of Nutrition of the Public Health Section, Faculty of Medicine.

An Agriculturist for agricultural crops, Ministry of Agriculture,

A representative of the Ministry of Social Affairs,

# Composition and Attributions of the Nutrition Section:

- 1. The Nutrition Section consists of two nutrition research units, each under the direction of a medical officer. The staff of each unit include a food inspector, two social workers and a clerk, besides the junior staff.
  - 2. The Biochemical Laboratory is run by three chemists.

A Bacteriological laboratory is in course of construction.

The Units undertake food researches in different localities.

The Medical Officer undertakes the medical examination in the locality.

While the biochemical laboratory undertakes the analysis of foodstuffs and, where necessary, examine blood specimens.

A third unit was established in 1950 to assist the other two units. This unit is run by:

A Medical Officer, a Chemist, a Statistician, a Food Inspector, a Social Worker and a Clerk.

# Chapter V.-Permits

## Applications for new licences:

The number of applications for new licences for dangerous, unhealthy and inconvenient establishments of the 1st Class received during the year under review was 2,658 as against 1,825 in the preceding year.

## Licences issued by the Ministry:

A total of 1,302 licences for establishments of the 1st Class were issued during the year, as against 1,018 in 1949.

#### Ministerial Arrêtés:

Three ministerial arrêtés adding new establishments to or modifying the schedules were issued during the year as against two in the previous year.

These details indicate a steady increase in the activities of the Department as a result of the industrial and commercial expansion during and following war years,

# Chapter VI.-Rural Health

## Objectives of Rural Health:

- 1. To raise the environmental sanitary conditions in rural Egypt. This covers: water supply; public laundries and baths; food markets and slaughter houses; food control; cleanliness of the village; fly control; improvement of housing conditions through the provision of latrines, lime washing; improvement of lighting and ventilation and cleanliness of the dwellings.
- 2. Control of communicable diseases by small pox vaccination of infants; diphtheria inoculation of children; vaccination against other diseases e.g. typhoid when required; detection and control of infectious diseases.
- 3. To provide medical treatment, especially for parasitic diseases, eye diseases, diseases of mal nutrition, and other emergency and casualty cases.
- 4. To provide social health services in rural areas including maternity and child welfare, venereal diseases control, and health education.

These services are organised and administered by the various divisions of the rural health department as follows:

## I. Division of Rural Health Centres:

This Division is concerned with the administration and organisation of rural health centres, which have accomplished a great deal towards improvement of health.

This is demonstrated by the fall in the general and infantile death rates from 20 per 1,000 of population and 194 per 1,000 births in 1949 to 14 and 139 respectively in 1950.

An increase is also apparent in out-patient and in-patient attendances and in activities of maternity and child welfare services. Besides, a mass treatment campaign for parasitic diseases has been organised in Qaliubia Province.

The accompanying statistical tables show the activities of these centres during the year 1950.

The responsibilities of the department increase year by year following the steady provision of more rural health centres and in-patient sections and the consequent increase of the population thus served, as indicated by the following Table No. 50

Table No. 50

Y	Year		Population served by Health Centres	Number of operating centres	Number of parasitic dis. Sections	Number of M. C. W. Sections	Number of inpatient Sections	Number of new and old outpatients	
1945	••	••	•••	684,343	85	85	69	12	416,195
1946	••	••	•••	1,141,441	103	103	81	27	490,117
1947	••	•	•••	2,132,202	115	115	92	71	474,481
1948		•		2,610,928	129	129	101	84	587,819
1949				3,028,837	157	157	110	88	836,119
<b>19</b> 50	- • • • •	•	• • •	4,165,399	178	178	117	98	1,258,999

Although the number of health centres has doubled during the 5 years, the number of directors, assistant directors and inspectors has remained unchanged.

#### Preventive Medical Services:

The following table gives a comparison of infantile births and deaths during the last 3 years:

TABLE No. 51

	Population	Number	of of infantile	Number of	Rates			
Year	served by H. Centres	of Births		Birth rate per 1000 pop.	Death rate per 1000 pop.	Infaut morta- lity rate per 1000 births		
1948	2,610,928	110,552	50,960	28,647	42	20	<b>2</b> 5 <b>9</b>	
1949	3,028,837	118,091	56,933	30,322	39	20	2.6	
1950	4,165,399	154,597	58,561	21,216	. 37	14	13 <b>9</b>	

This shows the continuous drop in the death rate and infant mortality rate year after year in spite of the improvement in the accuracy of reporting and notification of deaths due to the improved supervision of birth and death registration.

#### Food Control.

During the year 1950, 3,761 food samples were taken for examination. Out of these 120 samples i.e. 30/o were adulterated.

## Treatment Services:

The following table No. 52 shows that not only the number of population served by these centres is steadily increasing as a result of the increasing number of centres, but also the average attendance per centre.

TABLE No. 52

	Number of new	Number of new	Average per centre		
Year	Outpati ents	ophthalmic cases	New O. Ps. attendance	New Ophthalmic cases	
1948	587,819	72,066	4557	5 <b>55</b>	
1949	836,119	106,270	5325	675	
1950	1,258,999	130,047	7045	731	

#### Parasitic Diseases:

The following table No. 53 shows the ratio of out-patients examined for parasitic infections:

Table No. 53

	Year		Number of new O. Ps.	Out patients examined i	
Mark.				Number	Rate per cent
1948			587,891	277,285	47 %
1949	•••		836,119	419,463	50 % -
1950	•••	•••	1,258,999	742,120	59 %

This shows that  $59\,^{\circ}/_{o}$  of the out-patients were examined in 1950 for parasitic infections as compared with  $47\,^{\circ}/_{o}$  and  $50\,^{\circ}/_{o}$  in 1948 and 1949.

It is hoped that this increase will be maintained until all out-patients are so examined.

The following table No. 54 shows the examination and treatment of Bilharzia infections,

TABLE No. 54

Year	Number examined for Bilharzia	Positiv	ve Cases	Number started Treatment	Number of Anti Bilharzia Injections	Average Number of Injections per Person
		Number	Rate per ceet			
1948	277,285	137,034	60.3 %	102,806	716,897	7
1949	419,463	237,372	56.8 %	171,018	1,622,767	9
1950	742,120	396,973	53.5 %	249,575	2,249,162	9

The ratio of positive bilharzia cases amongst out-patients examined shows a steady decline. It was 53°/o in 1950 as against 56% in 1949 and 60% in 1948. This is associated with an improvement in attendance for treatment as indicated by the average number of injections per patient which was 9 in 1950 as against 7 in 1948.

#### Maternal and Child Health Services:

The following Table No. 55 compares the prenatal activities during the last 3 years.

Table No. 55

Vear	New Pregnants		Pregnants' Vi	sits to Centres	Home Visits to Pregnants	
1001	Total Number	Average per centre	Total Number	Average visits per case	Total Number	Average No. per case
1948	30,738	304	106,110	3	40,036	1.3
1949	<b>3</b> 8,0 <b>5</b> 5	346	164,051	4.5	69,189	2
1950	44,061	376	221,816	5	86,656	2

This shows a steady improvement in attendance to pregnants both at the centres and their homes. The average visit per pregnant was 3 in 1948; and 5 in 1950.

The following Table No. 56 shows the delivery and post-natal services:

Table No. 56

Year	Number	Number of	f deliveries	Number of post-natal visits		
1 ear	of M.C.H. units	Total No.	Average per unit	Total No.	Average per delivery	
1948	. 101	31,812	315	174,639	5.5	
1949	110	43,404	395	229,606	5.5	
1950	117	46,607	400	271,707	6	

This shows an increase in the number of deliveries per one health centre from 315 cases in 1948 to 395 in 1949 and 400 in 1950.

## II.—Division of Rural Health Research:

In addition to the services of the health centres described above, the department considers that local conditions in rural Egypt affect very much the kind of services most suitable for introduction. Therefore a program of research in environmental sanitation and rural health is carried out with the following objectives:

- 1. To assess the kind and extent of health problems in Rural Egypt.
- 2. To find out the best solutions for these problems consistent with local economic and social conditions, and to provide such public health, preventive and curative services as will meet the health requirements in the area and agree with local conditions and customs of the people.
- 3. To evaluate the cost and results of such services and to find out whether the expenses would be within the economic abilities of the country when the program is generalised.
- 4. To develop the program from the experimental to the final phase, namely the training of personnel in the application of the principles learned to other parts of the country.

## The Program:

The program was started in 1947 under the joint administration and financing of the Egyptian Ministry of Public Health (Rural Heath Department) and the Rockefeller Foundation;

The Sindibis area in Qaliubia province had been chosen for the purpose because a new health centre was being established at the time and because of ease of transportation and its proximity to Cairo (30 kilometres north of Cairo).

The area involves 5 villages:

Sindibis	with a	population of	4,835
Quaranfil	,,	<b>,,</b> ,,	4,837
El Baradaa	,,	,, ,,	5,423
Aghour el Sughra	3,5	<b>,,</b>	4,432
Aghour el Kubra	,,	,, ,,	9,403
	$\mathbf{T}$	OTAL	28,420

The first step was to mark every house in the village with serial numbers, oil painted on the doors. A cadastral map was made for each village showing the houses, their numbers and other important landmarks of the village. The village was divided into zones for purposes of studying the services and their results.

The next step started in 1948 by conducting a comprehensive sanitary Survey to evaluate the existing sanitary conditions in the villages and the houses and compare them with the minimal sanitary requirements as judged by experience in other countries. A scale was made of the different items which totalled 106.5. The average score for the villages was 17 which means that they have only 1/7 of the minimal sanitary requirements.

Analytical study of the data obtianed showed that the basic sanitary needs in these villages were:

- 1. The establishment of safe and practical water supplies which need be accessible, inexpensive and consistent with local conditions.
- 2. Establishment of adequate means for disposal of excreta and the installation of sanitary latrines compatible with local conditions, customs of the people and economic standards.
- 3. The control of flies which are to a large extent the direct cause of the high infantile mortality and the high incidence of ophthalmias.

The 3rd step was to conduct a complete family survey including data about every person in the family to find out the incidence of the important diseases and the cultural, economic, nutritional and social status of these families.

## SANITARY SERVICES UNDER THE PROGRAM

#### 1.—*Water*:

In villages, it would not be sufficient to establish sanitary water plants only. They should be practiable to insure being used. They should suit local conditions and be inexpensive. Taking these factors into consideration, it has been decided to provide sanitary hand pumps - one for every fifty houses i.e. about 200 persons. These pumps are located in the streets at convenient spots, easily accessible to the houses and as much as possible on the way from these houses to the canals. The wells which are drilled about 60 feet deep in the ground penetrate the impermeable layer to reach a deep level of safe water and a satisfactory yield. At ground level, the well is protected by a concrete platform all round, For drainage of waste water, underground earthenware pipes and a concrete basin or reservoir are provided.

A well costs on the average L.E. 16.899, and for every village a man is appointed to repair and maintain these wells.

Water samples are taken periodically from each well (once every 2 weeks) for bacteriological analysis, and chlorination is used.

In 1950, 145 such wells were installed in the different villages of the area except Aghour el Kubra which was left for control.

#### 2.—Latrines:

The bore hole type or the Rockefeller Latrine is the most suitable and least expensive. One such latrine is made in every house deprived of a sanitary latrine.

It is made by an auger and it is 19 ft. deep and 16 inches in diameter. On the top a concrete collar and a slab are put: and then the people are instructed to make the fence and the door. Such a latrine costs P.T. 78.5 including labour and equipment.

In 1950, 1411 latrines were built in two villages: Sindibis and El Baradaa.

## 3.—Fly Control:

Fly counting by the grid method is done in each village once every week. The grid is 3 feet square. The counting is done in fixed grid stations in the villages and the results are charted. In this way the effect of the different insecticides can be evaluated and the time for application of dusting or spraying determined.

At first, DDT was used; then gammexane, and lastly chlordane in the form of a wettable powder, used for spraying in the selected villages whenever the fly count index rises. This chlordane powder contains 30°/o of pure chlordane and is used in 2.5°/o concentration, to spray favourable fly breeding places i.e. stables, manure heaps and latrines. This has been done almost 4 times during the year and it cost P.T. 18.9 per house per year. As a result, the fly population has been reduced by 96°/o.

In order to evaluate the effet of the separate items of the program, and to compare the results, certain villages were chosen for the different services and others left for control, as follows:

Table No. 57

Water	Latrines	Refuse & Sweeping	Insecticides	Fly count
+	+	+	+	+
+	+	+	+	+
+	+	+	Witnesda	+
+	Providence	**************************************	+	+
_	amount	**************************************	_	+
		+ + +	+ + + +	+ + + + + + + + + + + + + + + + + + + +

## 4.—Refuse collection and disposal:

In Sindbis, Quaranfil and El Baradaa villages the streets are swept twice weekly i.e. 1/3 of the village is swept daily. The refuse collected is burnt and used to fill in the ponds and marshes in the village.

This service costs L.E. 27 to 30 per village per month.

## 5.—Lime-Washing:

The village houses are lime washed to improve lighting and cleanliness. It costs P.T. 21.9 per house including labour, material and transportation. If we deduct labour wages, the cost of white washing would be P.T. 6 only.

## Reorganization of the services of Sindibis Health Centre:

The services of the health centre have been reorganised and coordinated which, with the training of personnel, resulted in a great increase in the activities of this health centre during the last 3 years, as can be seen from the following table:

Table No. 58

Out patient division	1948	1949	1950
New out patients	7,485	10,874	24,559
Cases examined for parasitic infections	3,150	7,760	15,539
Antibilharzial injections given	16,152	19,431	49,446
Anthelmintic doses given	308	1,160	6,924
In-patient division:  patients admitted	47	80	95
Maternity and Child Health Services:			
New pregnants	192	488	944
Old pregnants	395	1,339	2,585
Deliveries	137	342	568
Post-natal visits to houses	559	1,494	3,457
Total other house visits	224	933	2,136
Babies visiting the centre	672	3,797	4,129
V.D. Services:	-		
Blood samples for W.R	261	541	1,036
Anti syphilis injections	8	232	787

#### Endemic Diseases:

All the villages of the area—except Aghour el Kubra—have been surveyed. Census tables were prepared showing the names, ages and sex of all the inhabitants of every house. The nurse collects urine and stool samples from every house, brings them to the health centre for laboratory examination. Positive cases were treated locally in their village by a light mobile treatment unit, saving them the trouble of transportation. This lead to a great improvement in the rate of regular attendance for treatment. About 80% of positives attended regularly the anti-bilharzial course of injections untill completely cured.

The following is the incidence of the various parasitic infections in the 4 villages as a result of the survey:

Table No. 59

	Sindibis	Quaranfil	El Baradaa	Aghour el Sughra
	`			
Urine:				
Schist. hematobium	31%	43.7%	52.8%	47.8%
,, Mansoni	0.5			<del>-</del> .
Stools:				
Schist. hematobium	1	1	1.2	1
',, Mansoni	11	0.5	0.2	0.3
Ascaris	62	87	68.8	84.4
Ancylostoma	3.5	8.8	5.4	16.7
Other parasites	6.1	8.5	7.7	9.6

N.B.—This area is now free from Planorbis snails, the intermediate host of Sch. mansoni.

#### Tuberculosis:

AT.B. program in Sindibis village has been carried out through the cooperation of this division and the T.B. Control Section of the Ministry of Health. The majority of the village population have been tuberculin-tested; the negatives were B.C.G. vaccinated. Mass radiography was done by miniature films by the mobile X-Ray unit. Positive and suspicious cases were sent to Cairo for further investigation by big films and sputum examination. This survey resulted in the discovery of 52 cases. Of these: 32 were definitely positive and most of them were hospitalized and the remaining few are on the waiting list. The rest of the cases (52 - 32=20) are still under observation and follow-up by repeated X-Ray and sputum examinations.

Visiting nurses pay home visits to instruct and follow up the cases till they get hospitalized.

Tuberculin testing has shown that  $66^{\circ}/_{\circ}$  of the people surveyed were positive :that the rate of positives is generally higher in females than in males especially in the age-groups 0-14 years : and that  $8^{\circ}/_{\circ}$  of infants below one year of age are positive. This high percentage at such an early age indicates an early exposure to the tubercle bacilli before they are one year old.

#### Venereal Diseases:

An extensive W.R. survey has been carried out for both pregnants and the population in general. The average incidence of W.R. positives was  $7^{\circ}/_{\circ}$ : it rises to  $9.9^{\circ}/_{\circ}$  in males 15—45 years, which is a high percentage.

The positive cases are treated and followed-up, together with their contacts, by the visiting nurses to ensure their regular attendance for examination and treatment.

#### Visiting Nurses:

A visiting nursing service was established in this area. One visiting nurse was assigned to every village (except Aghour Kubra). She pays home visits, gets acquainted with the members of the family, gains their confidence, and instructs them in public health and health education in a simple and practical way. She records all this in a special family record. If she finds a sick person she makes out for him a personal record, with data about history of illness, symptoms, complaint, temperature etc. Then she refers him

to the health centre by a forwarding slip, signed by her. Then she visits the family repeatedly to follow up the patient and check on his condition, to see if he is taking the treatment and whether he is improving.

Under this system, it was possible to bring cases of syphilis under treatment, to follow up cases of tuberculosis till they were hospitalized and to observe contacts etc.

The nurse pays these house visits daily from early morning till 11 o'clock. After this i.e (from 11 a.m. to 1 p.m.), she has a nursing office in the village where she carries on such simple services as small-pox vaccinations, eye wash, eye drops or paints for opthalmias (according to the doctor's recommendations), and takes blood samples for examination instead of forwarding the people to the health centre.

The object of this program is to provide simple medical services to the villagers in their villages saving them the trouble of transportation and relieving the health centre to enable the doctor to devote sufficient time for complete examination and treatment of the patients.

#### Vital Statistics:

The program aims at organising registration and reporting with a view to the collection of accurate health statistics. Besides, a statistical study of infantile deaths is conducted to obtain correct information about ratios of infantle mortality at this early age.

It is noteworthy that the infant mortality rate in Sindibis village has fallen from 326 per thousand births in 1948 to 105 in 1950. This improvement varies in the various villages with the extent of services of fly control, insecticides and medical care etc.

The general death rate has also fallen in Sindibis village from 32 per thousand population in 1948 to 18 in 1950. Again the degree of improvement varies according to the accuracy of reporting and registration of deaths which reveals cases that would otherwise have been concealed.

#### III. Division of Sanitary Engineering:

This division was set up in March 1950.

Objectives: To improve environmental health conditions in the Egyptian village by:-

- 1. The introduction of potable water supplies into the villages. At present the department of village affairs instals water plants outside the villages in order to secure a safe site. This division proposes to lay down networks of piping and taps inside the villages so as to facilitate the use of potable water. Until this is accomplished, the division is installing sanitary hand pumps inside the villages.
  - 2. The establishment of inexpensive sanitary latrines inside the houses.
  - 3. Cleanliness of the village, disposal of refuse and manure heaps in a sanitary way.
- 4. Improvement of housing by such simple methods as: white washing to improve lighting; the increase of window area to improve ventilation; the removal of fuel to a separate place to diminish fire risks etc.
  - 5. The control of disease transmitting insects e.g. flies and lice by insecticides.
  - 6. Food control by the establishment of simple slaughter houses and food markets.
- 7. Cooperation with other agencies interested in the social and sanitary improvement of villages such as: social centres, village councils and municipalities.

## A. Activities accomplished in 1950 (March through December):

In the budget of the Rural Health Department for the fiscal year 1950/51, L.E. 10,000 were allocated for the improvement of environmental sanitation by a program that is practical, easily applicable and suitable to local conditions of the villages and villagers.

The following villages have been chosen.

		Population (approximate estimation for 1950)					
Kom Bira	•••	•••	•••	• • •	•••		2,000
Kafr Hakim	•••	•••	• • •	• • •	•••	•••	1,700
El Mansouria	ah	•••			• • •	* * *	11,500
Nekla	•••	•••		•••	•••	•••	3,500
Berkash	•••	•••	•••	•••	•••	•••	4,000
			Tor	ral	• • •		28,000

In choosing these villages in Giza province near Cairo, consideration was given to their ease of access and transportation which facilitate supervision. Besides, this area has only recently been provided with medical services and is still in great need of environmental sanitary services.

Since the budget was only approved on August 19th, 1950, with 3 months remaining before the end of the year, only the following were accomplished:

- (1) Renting premises for office and store in each of Nekla and Kom Bira villages.
- (2) Survey and preparing of 1/1000 scale maps showing the important landmarks for Kom Bira, Kafr Hakim, Nekla and Birkash villages.
- (3) A complete sanitary survey of all the houses was made and the sanitary standard in each village was rated so that evaluation of the degree of improvement of these standards could be possible.

The following is a summary of the analysis of the data for Kom Bira village: it gives a general idea of the sanitary condition of the Egyptian village:

- (a) The average sanitary rating for houses in Kom Bira was 34.7 %. 70 % is the minimal score for hygienic housing.
- (b) 5°/o of the houses have a private hand pump for the supply of water. The remaining houses get their potable water from any available source.

This shows that such a village is in great need of safe water sources and also sanitary latrines in the houses.

(4) Cleanliness of the village and establishment of latrines:

The following have been provided in 1950:

Village		Scavenging gangs	Latrines	
Kom Bira ·	• • •	1 gang	161 latrines	
Kafr Hakim		1 ,,	_	
El Mansouriah	•••	2 ,,		
Nekla		1 ,,		
Birkash	• • •	1 ,,	WANTE	

B. In the budgets of Provincial Municipal Councils, L.E. 11,000 have been allocated especially for the cleanliness of villages.

Certain villages have been selected in each province for such a purpose. These villages have been chosen according to their need for improvement, to their proximity to the seat of the province for easy supervision by the provincial health administration, and the presence of a health or a social centre to facilitate local supervision of the pervices.

The follwing is a list of the selected villages:

Table No. 60

Province	c <b>e</b>		Village	Population
Behera	•••		Lakana	3.000
Sharkia	•••	•••	Shobak Basta	3.275
Dakahlia	•••	•••	Mit El-Faramawy	3.016
Gharbia	•••	•••	Beltag	4.648
Fouadia	•••	•••	El Hamra	4.173
Qaliubia	•••	•••	Tahanob	5.633
Menoufia	•••	•••	El-Ghanamiah	1.109
Giza		•••	El Mansouriah	10.729
Fayoum		•••	Matar Tares	9.774
Beni Suef			Shater Zadah	2.136
Minia	•••	•••	Zohrah	3.286
Assiut	•••	•••	El Atawlah	3.500
Gerga	•••		El Kitkatah	3.152
Qena	•••	•••	El Dair	2.250
Aswan	•••	•••	El Sibayah	17.389

All the rural health centres except Assiut, Gerga, Qena and Aswan have been supplied with the necessary equipment for the work. Because of the late approval of the budget, the work was not started during the year.

## IV. Sanitation Division:

### Responsibilities:

- 1. Cemeteries.
- 2. Problems for study by the water Commission.
- 3. Supervision of refuse disposal systems and the control of mosquito-and fly breeding places.
  - 4. Fencing and protection of waste lands in cities.
  - 5. Summer and Winter resorts.
  - 6. Sanitary survey and licencing of farms (Ezbas).
  - 7. Public Sewage systems.
  - 8. Enactment and enforcement of sanitary laws.
  - 9. Supervision and control of filtered water plants.
  - 10. Supervision of water systems in mosques.
  - 11. Administration and operation of public baths in villages.
  - 12. Control of public slaughter houses and enforcement of laws relating to them.
- 13. Application of the Rural Health Reform law to ponds and marshes by filling them in either by the inhabitants or by the department of village affairs.

## Activities accomplished in 1950.

#### 1. Cemeteries:

## (a) New cemeteries:

38 cemeteries have been established or expanded.

156 other cemeteries: steps are being taken for their establishment or expansion

## (b) Disused old cemeteries:

123 disused cemeteries have been evacuated and reclaimed.

346 other disused cemeteries are being substituted and evacuated.

## (c) Private tombs:

Number of licences issued ... 8.

Number of tombs under licensing 17.

# ADMINISTRATION AND OPERATION OF PUBLIC BATHS AND LAUNDRIES OUTSIDE THE HEALTH CENTRES:

Table No. 61

Month =	No. of operating baths and Laundries	No. of persons who used the baths	No. who used the Laundries
January	<b>2</b> 9	18,020	1,177 1,816
March	35 37	1,578	1,636 3,387
April <td< td=""><td>40</td><td>14,646 7,311</td><td>2,680 1,799</td></td<>	40	14,646 7,311	2,680 1,799
July	44 .	10,512	2,665 4,268
August <t< td=""><td>. 44</td><td>16,900</td><td>4,294</td></t<>	. 44	16,900	4,294
October	. 52	21,606	3,282 5,652
December	. 55	30,142	8,714

By providing these public baths and laundreis for the use of the poor, this Division has much contributed towards the preservation of public health and reduction of morbidity. During epidemics, visitors to these baths and laundries are also dusted with D.D.T. for insect control.

Finally, this Division is responsible for laying down the sanitary specifications for water supplies, sewage drainage systems and disposal of mosquito and fly breeding places particularly in rural areas.

Table No. 62.—Preventive Services, Curative Services and Treatment of Endemic Diseases, Maternal and Child Welfare

11	dand that	7	1 1
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Food Control	No. of samples results of laboratory Ex		
Food (	No. o	က်	
	Food Condemned (Mo. of times)	1,019 1,191 1,488 1,488 533 239 216 455 301 251 471 129 111	
	Seasesib ToftO	355 268 268 272 413 302 302 393 130 6,833 86 274 200 200 200 200 200 214 31	
	xod .8		1
diseases	Сројека		
Cases of infectious diseases	biodqvT	112 122 123 124 48 831 101 101 101	
ases of	Relapsing		1
	Турћив		1
	Plague	1111111111111	
	3rd.	670 1,249 1,249 1,800 1,800 378 378 380 293 954 747 747 373 151 126	
Diphtheria	2nd shot	715 873 1,503 2,300 1,030 1,030 1,141 1,141 906 446 1119	
A	lst.	1,032 1,459 1,731 3,174 1,439 1,441 1,096 1,096 1,84 286	
x	Veceinsted Volginated Po	16, 171 1,032 5,800 1,459 11,267 1,731 19,728 3,174 7,646 1,439 8,343 973 10,584 434 5,535 527 3,409 608 7,292 1,441 8,902 1,096 6.457 492 8,449 184 2,717 286	
138	Total Deaths	3,255 3,451 10,161 4,485 3,466 4,727 3,224 1,861 1,861 1,495 1,495 1,495 1,495	14 er 1000
Deaths	Infant Deaths	2,626 1,632 1,563 2,826 1,417 2,602 1,105 1,467 1,540 1,540 770 897 538	139 14 Per 1000 Per 1000
w	No. Still- Births	25 17 17 17 17 18 18 18 18 18 18 18 18 18 18	
Births	Total No. of Births	18,284 8,114 12,483 25,857 8,822 9,110 19,918 6,467 3,374 10,199 6,373 9,745	37%
8	orA to noitslugod	319,668 151,812 194,384 600,598 1,078,036 235,429 226,829 146,769 95,209 251,970 249,462 249,462 249,462 249,462 249,462 249,462	
tres	No. of Health Cen	11 11 12 13 14 11 10 10 10 10 10 10 10 10 10 10 10 10	
			:
To Department of the Control of the	Province	Dakahlia Qaliubia Sharkia Gharbia Menoufia Giza Giza Asyoum Assiut Gerga Qena Aswan	RATE

TABLE No. 62 (Contd.)

	68	peted tnemt		252 30 450 368 345 345 345 36 305 305 305 305 305	grave de la constant
	Dysentery cases	No. of	Shots	1,860 1,933 1,902 1,902 2,786 277 430 129 698 141 759	
	jo	្ឋាទេយព ជូមមា	Bett	270 48 470 426 145 46 65 22 109 280 132 132 132	
	No.	Positive		280 622 495 453 186 603 50 72 17 17 17 17 17 13 93 13 93 13 93 13 93 13 93 13 93 13 93 13 93 13 94 93 13 94 93 13 94 93 94 94 94 94 94 94 94 94 94 94 94 94 94	% =
Endemic Diseases	rasites	Completed	treatment	24,507 8,002 11,570 21,142 9,800 4,115 8,271 1,666 1,955 6,722 1,704 1,704 1,955	
Endemic	testinal pa	with	Chenopo- dium	25,837 30,717 12,911 35,984 47,295 13,914 9,510 9,510 1,546 6,050 2,461 1,170 1,170	
	No. of Cases of Intestinal parasites	treated with	Carbon tetrach.	2,675 4,696 2,746 1,830 1,830 6,851 1,355 4,256 4,256 4,256 4,256 61 61 61 61 61 61 61 61 61 61 61 61 61	7
	No. of (	Docitive	PATRICO T	44,143 63,081 27,814 69,518 54,700 27,111 26,704 3,214 5,602 12,236 8,613 9,223 6,078	
•		No. of New Patients Examined		88,019 85,668 48,693 114,741 75,294 49,843 61,500 18,895 24,053 47,420 48,168 45,574 21,264 12,978	
stneit	In-Pa	10.0V	Total	1,066 1,338 1,115 1,115 1,525 6,237 6,237 2,371 2,371 114 96 96	
Operations	S	-Patient	-uI	85 205 205 205 160 181 19 19 19 833 833 833 833 833 833 833 833 833 83	. 1
No. of Ope		Out Patients		3,216 1,483 1,861 4,305 2,105 1,776 2,589 292 197 301 278 97 149	
		No. of old		32, 860 6, 980 32, 292 25, 551 35, 919 17, 376 17, 022 8, 716 18, 078 6, 976 7, 278	
Ophthalmic case		No. of new Cases		9,516 21,274 13,530 9,548 7,496 8,960 5,262 4,633 8,333 14,343 7,949 8,931 4,508	
Out Patients		No. of No. of Cases		206,100 47,413 125,404 258,402 102,126 116,566 35,461 20,024 14,111 38,832 11,816 93,843 10,885 30,452	
No. of Out		New		135, 134 153, 220 114, 384 71, 794 125, 683 161, 469 113, 240 35, 913 36, 491 64, 218 130, 873 78, 870 31, 624 86	
aths ndries	No. using No. using baths laundries			1,980 14,497 1,246 2,450 16,177 1,359 11,670  5,238 4,144 18,588 11,071 477	
Public Baths and laundries				18, 974 85, 968 43, 927 16, 332 79, 627 23, 080 50, 705 43, 639 17, 231 26, 651 1, 416 1, 416	
	Ž .				:
	Pro▼ínœ			Dakahlia Qaliubia Sharkia Gharbia Behera Fayoum Fayoum Beni-Suef Assiut Gerga Qena Aswan	RATE

TABLE No. 62 (Contd.)

n		1												
	Shots	पुरा	umsia	1,121 1,898 1,898 1,111 2,864 1,298 3,579 816 2,206 804 123 149										
	52		мезтА	4,154 7,219 2,228 9,916 4,560 1,846 7,559 8,994 6,975 3,362 3,362 3,862 3,863										
tment		пел	Child	104 104 1189 1189 120 136 120 136										
Anti - syphilitic treatment	Campleted treatment	spue	qsnH	10 10 10 10 10 10 10 10 10 10 10 10 10										
- syphil	Ca tr	s	өчіW	97 65 1115 1199 46 21 130 120 130 130 130										
	hilitic	leπ	СРИЗ	128 371 355 79 78 78 78 8 8 8 8 8 8										
tests an	Began Antisyphilitic treatment	spae	deuH	21 644 97 72 449 119 461 134 134 134										
Wassermann tests and	Began	s	өчіМ	518 897 292 603 286 2,261 188 165 630 1,667 338 -15 8,428										
Wass	səlq	ms2 be	lioqZ	608 339 516 134 179 179 190 190 191 191 29 29 333										
		θД	disoq	420 165 214 500 187 167 165 175 168 643 547 207 -										
	p	n bjes		5.243 4,762 4,126 1,974 5,718 2,661 4,931 2,192 3,960 2,755 1,078 1,078										
nts			Old	18,897 24,533 12,226 26,171 17,606 10,501 22,852 6,953 9,044 16,128 8,389 4,448 7,755										
Pregnants			мэИ	2, 174 6, 152 6, 152 6, 152 1, 908 1, 908 1, 908 86 86 86 1, 961										
ases ies			oə <b>r</b> uO	1,206 1,850 1,850 1,364 4,482 4,437 4,430 4,420 4,420 4,420 4,420 4,420										
No. of cases of scabies			WeW											
	ьО <b>ьт</b> ді	ot Pella	o.oV	642 150 150 150 150 150 150 138 138 138 138 14 4										
		ı	Nega- tive	12, 644 642 1, 226 4, 780 1, 150 1, 358 4, 770 1, 203 1, 584 19, 690 2, 860 1, 410 5, 520 1, 821 449 2, 933 767 551 510 767 91 78 1, 154 86 33 2, 515 504 497 1, 765 138 308 3, 887 33 40 1, 494 124 444 1, 127 4 39	%18									
		amined after treatment	Positive N	928 306 5528 552 105 105 190 190 190 190 638 638 638 638 638 638 638 638 638 638										
											Examined treatm	Total Pos		
ละคร	cases		To											
Endemic Diseases	No. of Bilharzia cases	of	Silharzia	Silharzia	Silharzia	Silharzia	Silharzia	ilharzia	pleted		18,817 5,702 16,794 29,664 8,011 5,533 8,604 1,698 2,826 4,925 2,371 5,525 1,826 1,267	45%		
Ender			spods	lo ov	354, 689 208, 026 176, 692 451, 261 253, 519 45, 578 73, 429 72, 418 148, 001 48, 176 18, 864 14, 354 15, 423									
		quemo u	treat	21 00 00 00 00 00 00 00 00 00 00 00 00 00										
			Bear		0/0									
		97і3	isoq		52%									
	<b>A</b>													
	Province			Dakahlia Qaliubia Sharkia Gharbia Behera Giza Fayoum Beni-Suef Minia Assiut Gerga Qena	RATE									
4														

rea	é	sıu <b>V 7</b> 8	4,056 3,537 3,265 6,329 6,329 1,935 1,694 909 821 774 1,347	1
Lectures	   	By Health Officer	904 640 640 1,330 1,253 4 1,253 4 1,253 1 362 294 1 120 120 156 44 156 156 31	
itation letters visiting centre)	10 1	ersentom oT nerblido	1,719 5,317 5,317 1,446 1,539 2,902 57 159 1531 123 123 123 123 123	
Invitation letters (for visiting centre	stnangerq oT		804 341 474 1375 794 710 229 367 512 	
	ren	rslugoA stisiv	8,775 5,545 5,545 1,283 1,883 1,883 1,883 1,962 2,647 2,647 2,647 11,962 2,647 14,948	
Q	Children	-noV standandta	15,846 6,588 6,131 26,914 5,621 1,731 1,965 1,342 1,342 1,342 1,342 1,342 1,342 1,342	
Home Visits to		gniruU nireqren¶	40,028 15,846 18,650 6,588 28,702 6,131 43,668 26,914 29,087 5,621 18,159 4,064 27,432 1,731 7,582 1,965 11,822 1,965 11,822 1,965 11,822 1,965 11,822 1,965 11,823 1,342 21,301 700 4,583 1,342 969 520	
H <sub>01</sub>	ants	dte gairad dtaom	4, 365 4, 365 4, 152 4, 368 8, 632 5, 500 2, 619 2, 267 1, 561 2, 289 8, 289 1, 771 93	
	Pregnants	Non-strendants	5,298 3,942 3,965 7,214 4,481 1,671 1,436 2,795 4,101 3,543 813 -178	
		i10d1dqiQ IszinummI	468 1,254 2,756 2,475 1,312 305 698 698 1,465 903 114 1189	
lfare	noiten	S. Pox vacci	5,634 4,484 7,067 3,598 3,620 3,877 1,380 1,544 2,322 869 	
Child Welfare	enoiaiomustiO		261 193 338 261 1 5 1 1 1 1 1 1 5 7	
	пелр	No. of Chil	50,895 51,254 38,758 61,641 40,584 38,360 38,694 13,715 22,786 9,735 6,921 2,822 2,822	1
	əbia	tuO morT	2,189 1,282 1,689 1,689 1,681 1,821 1,661 376 1,661 1,661	
Deliveries		t <b>4</b> -nI ni noitoes	22 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
No. of D	erole estui	Completed b	1,033 823 473 823 156 156 338 338 1,120 1,120 1,86 6,788	
		IstoT	7,238 3,732 2,994 7,496 4,685 3,027 1,990 3,321 3,691 148	
	To	t evitized regud	23   17   17   18   18   18   18   18   18	
alysis	rs for men	Bilharzia evit —	3,239 7,761 835 132 4,217 81 50 69 69 69 69 69 69 77 81 84 77 84 77 84 77	
Urine Analysis	Positivs for Albumen	Bilharzia evit +	299 341 181 152 583 200 173 122 73 18 47	
1		No. of Samples	16,539 30,565 15,550 27,355 22,707 11,400 25,459 9,048 1,776 18,863 8,056 5,697 775 193,717	
			Dakahlia Qaliubia Gharkia Gharbia Kehera Giza Fayoum Beni-Sutf Minia Assiut Gerga Qena Aswan	RATE

## Chapter VII.-Quarantine

## Maritime Navigation

Table No. 63.—Quarantinable diseases reported in the ports during the year 1950

D. 4				Plague		Cholera		Smallpox		Typhus	
Ports			Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	
Alexandria	• • •	•••					_		7	_	
Port-Saïd	•••	•••	_	—	_	_	_	_		_	
Suez	•••	•••	- 1	_					_	_	

Other Ports:— Abu Zenema, Safaga, Hurghada, Shellal, Kantara, Ras-Ghareb, Rosetta, Abuqir, Mersa Matrouh and Sollum: Nil

## Inspection of Vessels

As provided for in Article 48 of Quarantine Regulations, all vessels arr ving at Egyptian Ports must, before communication with the shore, be medically inspected.

Vessels arriving from infected ports are subjected to a detailed medical inspection (arraisonnement).

In the tables that follow are given:—

- 1. List of localities declared infected during the year by the Quarantine Authority (Table No. 64)
- 2. List of localities declared clean during the year by the Quarantine Authority (Table No. 65)
- 3. Number of vessels subjected to simple medicial inspection (Table No. 66)
- 4. Number of vessels subjected to detailed medical inspection (Table No. 67)
- 5. Diseases found on vessels on their arrival at Egyptian Ports (Table No. 68)
- 6. Vaccinations carried out on board vessels in Egyptian ports (Table No. 69).
- 7. Passengers (Table No. 70)

Table No. 64.—Localities declared infected during the Year 1950

1)ate		Disease	Name of Country	Name o Locality considered as infected
1950 January	11 23		Peru	
,, ,	23		Transval (Union of South	
March	5	Plague	Union of South Africa	Lady Grey Municipal Area (Cape Province).
,,	5	<b>,</b> ,	Hawaii	. Honokaa & Kapulena Areas.
,,	8	Smallpox .:.	Saudi Arabia	. Whole Territory.
٠,	19	,,	Indonesia	. Medan.
,,	27	Plague	Transval (Union of Sout	h Waterburg, Viljoenskroon.
April	11	Plague	Peru	Piura Department, Ayabaca, Huancabambe Province. Cajamarca Department Chota Pro- vince.
<b>,</b> ,	15	Smallpox	Java Island	Sourabaya.
,,	30	Plague	Rhodesia (Northern)	Barotse Province.
. ,,	30	,,	Venezuela	Tacata, State de Miranda.
May	7	,,	Burma	Rangoon.
,,	7	Smallpox	Chile	Whole Territory.
,,	17	Plague	Washington State (U.S.A	Lincoln, Douglas, Grant Counties.
,,	17	Smallpox	Indonesia	Pontianak, Borneo Island.
·,	17	Plague	Union of South Africa .	Dewetsdrop District, Orange Free
,,	25	,,	,,	State. Thaba, Nchu District.
June	5	Typhus	Yugoslavia	Whole Territory.
,,	5	Smallpox	Indonesia	Jogjakarta
,,	5	,,		Lusambo
	15	,,	Gold Coast	Whole Territory.
,,	21	Typhus	Iraq	Whole Territory
"	28	Plague		Luckhoff Municipal Area (Orange Free State).
July	13	Smallpox	Greece	Whole Territory
,,	13	,,	Borneo Indonesia	
	31	Plague	Washington State (U.S.A	
"	31	Smallpox	Argentine & New Mexico.	

Table No. 64. (contd.)

Date		Disease	Name of Country	Name of Locality considered as infected
1950 August	7			Whole Territory,
"	7	Cholera	Burma	whole Territory.
,,	7	Yellow Fever	Union of South Africa (Bechuanaland)	Nyassaland and Barotseland.
,,	27	Plague	Union of South Africa	
,, ·	27	;,	. ,, ,, ,,	Lady Grey Dist.—Aliwal North Dist.—Queenstown Dist.—Sterkst. room Dist. (Cape Province).
"	30	,,	U.S.A	Texas County, Oklahoma State.
Sept.	7	Smallpox	Union of South Africa	Belgian Congo, Angola.
37	7	Typhus	India	Kashmir Province.
,,	9	Plague	Indonesia	Jogjakarta.
,,	9	Smallpox	French Establishment in	
,,	10	Plague	Union of South Africa	
	30	Cholera	Portuguese India	Johenesburg and Kurgersdorp Districts.
**				Arizona State
,,				
,,	30			Inhambupe, Bahia State.
,,	30	Cholera	Portuguese India	Whole Territory.
Oct.	15	Smallpox	Java Island	Panurukan, Pasuruan.
,,	15	Plague	Union of South Africa (Transval)	Vlak Fontein, Fauresmith District
,,	15	,,	U.S.A	Kansas State.
,,	15	,,	Hawaii—Mani Island	Makawaa.
Nov.	4	,,	Union of South Africa	Beaufort West Dist.
,,	4	,,	Brazil	Bahia and Alagoas States.
,,	22	Smallpox	Borneo—Indonesia	Samarinda.
,,	22	Typhus	Peru	Whole Territory.
Dec.	14	Smallpox	Bechuanaland	Whole Territory.

TABLE No. 65. RESTRICTIONS WERE WITHDRAWN FROM THE FOLLOWING LOCALITIES

Date		Disease	Name of Country	Name of Localities considered as decontaminated
1950				
January	28	Plague	Chile	Sentiago.
March	19	,,	Union of South Africa	Hay; Gordonia; Parys; Hopstaad;
May	3	Typhus	Greece	Vredvort. Whole Territory
,,	3	Smallpox	Algiers	Whole Territory
,,	29	Plague	Peru	Tumbes Department.
June	6	,,	Cape Province	Grey Municipal.
,,	6	,,	Transval	Waterburg and Viljoenskroon.
August	12	,,	Venezuela	Tacata, State de Miranda.
,,	21	Smallpox	Greece	Whole Territory
,,	22	Plague	Hawaii	Honokaa and Kapulena Areas
October	10	Smallpox	Union of South Africa	Haina; Hamakua District. Whole Territory.
,,	17	Plague	Burma	Rangoon, Mulmein.
,,	17	Smallpox	Burma	Rangoon, Akyab.
November	4	Yellow Fever	French Somaliland	Whole Territory including Djibouti
,,	4	Plague	Indonesia	Jog <b>ja</b> karta.

# Simple Medical Inspection (Reconnaissance)

Table No. 66.—Statement for all Ships arrived during the year 1950

Port	Cargo	Passenger Vessels	Passenger and cargo	Sailing vessels and launches	Tankers	Various	TOTAL
Alexandria		275	930	113	80	21	1,419
Port-Said	1,939	395	506	356	3,126	<b>43</b> 8	6,760
Suez	410	27	48	425	484	16	1,410
Tor			7	97	4		108
Quseir	59	distantia		95	4		158
Damietta				145		,	145
Rosetta							
Hurghada	80		-	20	and the same of th		100
Safaga	10	1	Option State of the State of th	31	2		44
Kantara	-		_	2	- Special Control		2
Sollum			geningerings				***************************************
Ismailia		_			**************************************		_
Abu Zenema	5	generates	Transparante	109		,	114
Mersa Matrouh	,		-				_
Ras Ghareb	136	generalia	158	3			297
Abu-qir		Programming.	_				_
Brollos		_	-	generates		_	
Shellal	_	generalija			_	-	_

# Detailed Medical Inspection (Arraisonnement)

Table No. 67

	1						and the same of th
Port	Cargo	Passenger Vessels	Passenger & cargo	Sailing vessels & launches	Tankers	Various	TOTAL
						1	-
Alexandria		89	832	58	23		1,002
Port-Saīd	1,532	320	633	48	3,566	180	6,279
Suez	1,535	313	592	140	2,429	114	6,123
Tor			4	69	***************	1	74
Quseir	33			6			39
Damietta	-	_	8	er Charlestoning		- Commenter Comm	8
Rosetta				109	at the same of the same of the same of the same of the same of the same of the same of the same of the same of		109
Hurghada				$_2$			2
Safaga	12	-		17		_	29
Kantara		-					
Sollum		***************************************		2		_	2
Ismailia		Orași de la constanti de la co	_			-	Mayerman
Abu Zenema	7	_					7
Mersa Matrouh		_		1	-		1
Ras Ghareb	1		1	1	e-residential		3
Albar Oin				24			24
				22			A.7
Brollos					connect	Oranie de la constante de la c	
Shellal	99	53	5	486	amproved .	166	809

# Table No. 68.—Quarantinable and Infectious Diseases Found on Board Vessels.

ALEXANDRIA: Nil

#### PORT-SAID:

(a) Quarantinable Diseases:

Nil.

- (b) Infectious Diseases: 38 cases on board 37 vessels consisting of the following diseases:
  - 3 Pulmonary Tuberculosis
  - 10 Pneumonia
  - 3 Influenza
  - 2 Bronchitis
  - 1 Dysentery
  - 2 Enteritis
  - 2 Coughing
  - 1 Poliomyelitis
  - 2 Typhoid
  - 1 Paratyphoid
  - 1 Hemorrhage
  - 6 Fever
  - 2 Typhoid Suspected
  - 1 Asthma
  - 1 Tonsilitis

38 TOTAL

#### SUEZ:

(a) Quarantinable Diseases:

9 Feb. One case of smallpox (Indian crew on S.S. "Dorchester" arriving from Jogjakarta and Colombia) was isolated.

March—One case of Modified Smallpox, isolated from s.s "Clan Pridie".

September—Three cases convalescent Smallpox on S.S. "Orkadis" arriving from Sydney and Colombo.

- 13 December—Three cases of mild smallpox (Indian crews) were isolated from S.S. "Ulrana" arriving from Calcutta, Visagabatam, Madras, Colombo and Aden.
- (b) Infectious Diseases: 1091 cases on board 227 vessels consisting of the following diseases:
  - 81 Influenza
  - 2 Whooping Cough
  - 302 Tuberculosis
  - 387 Malaria
  - 19 Chickenpox
  - 39 Measles
  - 6 Pleurisy
  - 1 Typhiod
  - 192 Dysentery
    - 7 Mumps
    - 2 Poliomyelitis
    - 2 Syphilis
    - 2 Leprosy
  - 21 Pneumonia
  - 3 Erysipelas
  - 18 Scabies
  - 2 Hepatitis
  - 2 Bronchitis
  - 3 Scarlet Fever

1091 TOTAL

# TABLE NO. 69.—VACCINATION CARRIED OUT ON BOARD VESSELS

#### SUEZ:

- 42 Crew of the s.s. Semiramis, Jacavos Illa and Youssif Zinal Aly Rida
- 790 Crew of the s.s. Dorsetshire
  - 3 Crew of the s.s. Timavo
  - 7 Crew of the s.s. Carlo
- 95 Crew of the s.s. Triumph
  - 3 Crew of the s.s. Portrose
- 42 Crew of the s.s. Youssif Zinal Aly Rida
- 5 Crew of the s.s. Star of Cairo
- 82 Crew of the s.s. Clan Pridie
- 5 Crew of the s.s. Troubadour
- 84 Crew of the s.s. Saqqarah
- 27 Crew of the s.s. Youssif Zinal Aly Rida
- 1 Crew of the s.s. Semiramis
- 4 Crew of the s.s, Youssif Zinal Aly Rida
- 2 Crew of the s.s. City of Exeter
- 22 Crew of the s.s. Yossif Zinal Aly Rida
- 24 Crew of the s.s. Al Amin
- 15 Crew of the s.s. Phillips
- 1 Crew of the s.s. Indian Trader
- 16 Crew of the s.s. Misr
- 11 Crew of the s.s. Al Sudan
- 6 Crew of the s.s. Al Amin
- 93 Crew of the s.s. Ulrana
- 32 Crew of the s.s. Derbyshire

All were vaccinated against smallpox

## CONTROL OF PASSENGERS

TABLE No. 70.—LANDING

Port		Class I and II	Class III and IV	TOTAL
Alexandria	•••	17,784	14,994	32,742
Port Said	•••	15,683	31,090	46,773
Suez	•••	3,636	18,829	22,465
Tor	•••	36,041	W	36,041
Qusier	•••	-		(Pilgrims)
Kantara	•••	2,598†	810*	3,408
Safaga				
Hurghada		20	10	30
Ras Ghareb		<b>5</b> 38	396	934
Mersa Matrouh	• • •		_	
Sollum		_		
Ismailia	•••			•
Damietta	•••		1	1

<sup>\*</sup> Arrived by Camels

TABLE No. 71—EMBARKING

Port	I and II Class	III and IV Class	TOTAL
Alexandria	14,361	15,712	30,073
Port-Said	16 <b>,174</b>	23,904	40,078
Suez	2,077	8,694	10,771
Tor	36,036		36,036 pilgrims
Qusier			-
Kantara	2,956*		2,956
Safaga			_
Hurghada	10	8	18
Ras Ghareb	387	417	804
Mersa Matrouh	-		plane.
Sollum	_		_
Ismailia	-	-	
Damietta		_	-

<sup>\*</sup> arrived by train.

TABLE No. 72.—AIRCRAFT DEALT WITH DURING 1950

Name of Airport	Landing Departing d		Aircraft disinsectised	Reconnaissance	Arraisonenment
,					
Cairo	6,521	6,494	1,743	1,910	4,611
Almaza	2,184	2,085	417	1,388	1,138
Luxor	323	<b>32</b> 3	288	35	288
Alexandria	834	837	234	448	386
Mersa Matrouh	10	12	_	10	
Fayed	2,571	2,715	678	1,040	1,531

Table No. 73.—Passengers Landed from Aircrafts

Name of Airport	Landing	Departing	Transit	Isolated	Remarks
Cairo	134,732	34,633	103,248	634	13 Irregular certificates of anti cholera inoculation.
Almaza	21,166	20,852	4,784	63	
Alexandria	4,820	4,880	13,538	37	Irregular certificates of anti-cholera inoculation.  Irregular certificates of yellow fever inoculation.
Fayed	10,789	18,000	6,871	4	Irregular certificates of inoculation.
Luxor	216	88	7,231	2	
Mersa Matrouh	- 26	26		-	inoculation.

#### ANTI-PLAGUE WORK

Details of rat catching in town and port areas carried out in Alexandria, Port-Said and Suez and their identification by the laboratories.

As regards the fumigation of vessels, this is done by either the Clayton Gas process which is carried out by the Quarantine Administration, or by the Cyanide process which, until October 1948, was carried out by the Imperial Chemical Industries under the Quarantine Administration supervision.

Under Article 28 of the 1926 International Sanitary Convention which was modified in 1938, masters of ships have the option of either process.

The Imperial Chemical Industries withdrew from this work as from October 1948 and the Near East Chemical And Fumigation Company took its place as from January 1949 under the same conditions.

TABLE NO 74.—Number of Rats caught, destroyed or examined in the Ports.

Number and species of rats caught	Alexandria	Port-Said	Sues
R. Norvegicus { town } port	4,129	7,838 358	1,404 110
R. Rattus { town } port	5,743 1,863	21 294	1 18
Acomys Cahirinus { town } port	2,152 97	=	654 155
Total	14,001	8,511	2,342
Soory { town port	: <u> </u>	_	706 831
Rats found dead $\left\{ \begin{array}{lll} \text{town} & \dots & \dots \\ \text{port} & \dots & \dots \end{array} \right.$	: =	<u> </u>	=
Rats killed $\left\{ \begin{array}{lll} \text{town} & \dots & \dots \\ \text{port} & \dots & \dots \end{array} \right.$	. 61 299	_	=
Plague infected rats found { town port	. 5	_	_
Rats found dead after fumigation on board vessels:			
R. Rattus	. 15	_	24
R. Norvegicus	. 629	23	_
Acomys Cahirinus	. 21	_	_
Soory	. 441	2	5

TABLE No. 75.—Fleas found on rats caught

			$T_{OW_1}$	n	Port A	Arca	TOTAL	
			LM.	X.Ch.	L.M.	X.Ch.	TOTAL	
A.—Alexandria:								
R. Norvegicus			38	96		28	162	
R. Rattus			609	674	83	54	1,420	
Acomys	• •••	•••	_				- Statements	
B.—Port-Said:								
R. Norvegicus			182	316	65	134	697	
R. Rattus			19	31	75	105	230	
Acomys		•••		submension (S)	and the same of th			
C.— $Suez:$								
R, Norvegicus		•••		-			Shapener Mr.	
R. Rattus		• • •				-	_	
Acomys					_		,	

L.M. = Leptopsylla Musculi.

X. Ch. = Xenopsylla Cheopis.

# Table No. 76.—Vessels deratised by the Quarantine Administration, (Clayton Process):

Don't of		Vessels		
Port of	Steamers ·	Sailing	TOTAL	Process of deratization
,				
Alexandria	10		10	Sulphur
Port-Saïd				<b>3</b> 7
Suez	4		4	**

# B.—Vessels deratised by the Near East Chemical and Fumigation Industries, Ltd. under the surpervision of the Quarantine Administration.

Port of	Steamers	Sailing	TOTAL	Process of deratization
Alexandria	17		17	Cyanide
Port-Saïd	-		_	,,
Suez	5	- /	5	2)

# C.—Certificates of Exemption from Deratization issued to:

Port of		Vessels			
Fort of	Steamers	Sailing	TOTAL		
Alexandria	61	15	76		
Port-Saïd	80	27	107		
Suez	74	70	144		
Damietta	_	40	40		
Quseir	-	45	45		
			h		

## Disinfection.

# TABLE No. 77.—DISINFECTION BY CHEMICAL MEANS

	Alexandria	Port-Said	Sue	Shellal	Tor
				:	
Disinfection of Decks of Vessels	19	_		_	43
Vessels with sick on Board			4		
Water tanks disinfected	37		22	_	
Water tanks purified	_		89	-	
Vessels carrying animals		9	81		1
Barges and boats	141	·44	360	_	5
Cabins occupied by sick	_	8	2	_	_
Motor cars and transport carts	108		5	7	_
Vessels from yellow fever zone	3		3,146	_	
Effects of personnel disinfected			50 K.		
Miscellaneous	13		208		
Effects in Kilos	· —		1,173 K.		_
Effects of porters	1,378		338 K.	40	i i i i i i i i i i i i i i i i i i i
Number of stovefulls		82		di Magana	_
Parcels disinfected without charge		3			_
Mooring Barges		486			_
Parcels disinfected and fees paid to Quarantine Administration		14,602.9k.	_	_	
Parcels disinfected and fees paid to the Customs-house		120	_		
Aircraft					<b>6</b> 8
Post parcels	67	_	_		
Vessels disinfected with D.D.T	1	_		_	
Holds of vessels	190	· <u>—</u>	15		
Effects of passengers		_	1,326		

#### DISINFECTION BY STEAM UNDER PRESSURE

	Alexandria	Port-Said	Sues	Shellal	Tor
Customs Parcels	147 K.	-	_	_	_
Hessian and wool	108663 ,,	_			_
Effects and clothes	167 ,,		_		

# Table No. 78.—Control of water distribution to vessels in the ports:

	Alexandria	Port-Said	Suez
No. of specimens taken from water-tanks supplying the vessels	_	-	292
Tanks		146	201
No. of specimens taken from taps supplying vessels	818	893	
			,
RESULT OF BACTERIOLOGICAL E	XAMINATION		
Specimens found fit for use.			,
Taps	90	86	188
Water-Tanks	742	<b>3</b> 85	162
Specimens found unfit for use:			
Taps	91	60	104
Water-Tanks	76	508	39
Specimens found unfit for use:	1	- )	- 1

TABLE No. 79. — CONTROL OF HIDES, SKINS AND ANIMAL DEBRIS

	Export		278	∞ .	1	1	ļ	i	١		ł	l	l	
Tor	Import		1	ı	1	1	ļ					1	1	1
	Export		1	ł	1	1 ;	kilos 104   12,591,500	İ	1				1	1
Shellal	Import	kilos	1,372,646	1	1	1 ;	kilos 104 12	k110s 28	1	-		ŀ	ı	
	Transit		15,260 1	bales 30	20	1		1:	<b>K</b> 1108		bales 1	ł	1	1
Sues	Export		l	1 2	1,095	1	kilos 19,830	-	1	un.	1	1	l	
	Import	kilos	52,368	1.100	12,085	1	kilos 268, 403	kilos 241	<b>\</b> =	OTHES, ETC.	kilos 532	1	ſ	1
	Transit	bales	41,523	1 000	Daileis 4	23	bales 34,858	1 -	bales 477	CONTROL OF RAGS, USED CLOTHES,	bales 43	8,394	33,835	
Port-Said	Export		1	1	1		1	1		TROL OF RA	tons 515.405	24.022	72.114	
	Import	kilos	118,623	1	1	l	¢.	1	1		tons 590.685	4.386	78.316	1
	Transit	bales	1,456 F KOO	bales 543	1	}	bales 19		l	~		1	-	-1
Alexandria	Export	kilos	49,470	669	502,839	KIIOS 16,623	kilos 580,134	kilos 167,595	1	-	126,515 20,117,024	!	1	2,400
A	Import	kilos	101,664	preces 2,845	6,874 6,874	KIIOS	kilos 66, 577, 405	kilos 25,581	1		126,515	1	1	ļ
	Artiole		Ox hides	Sheep and goat skins	Salted guts	Horns and hoofs	Wool  6	Anımal hair	Goat hair		Rags	Used clothes	Used jute	Shoes (Used)

# Chapter VIII.-Food Control

TABLE NO. 80.— STATISTICS SHOWING QUANTITIES OF FOODSTUFFS CONDEMNED AND NUMBER OF SAMPLES TAKEN AND THE RESULTS OF THEIR ANALYSIS DURING 1950

Percentage	Unfitness	%	2.5	1		6 15 — 23 11.5	2.5
Perc	Adulteration	%		1		0.7	2.2
	Unfit		1 5	F		1 12 — 9 — 13	211
taken	Adulterated		1111	}			4541
Samples taken	Genuine		776	<b>x</b>		16 54 30 113	139 300 174 19 209
NG 1000	Number of Samples		1	<b>∞</b>		17 79 54 39 127 11	149 815 199 9 19
DOMESTIC TOTAL	Oke		34,703 3,944 462 482	1,942		2,153 2,153 31 2,712 390	- 466 - - 62
ATTEN I	Rotl (lb.)		32,230 2,844 2,502 436	1,879		45 10 331 50 665	16 40 21 —
Foodstuffs Condemned	Cans		3,240	348	,	260 111 2,638 10,321 3,163	
Food	Bottle			23		4 114 119 — 31	. 111111
	Number		71,016	60,575		3,056	
41	Names of Articles	1.—Fresh Foods:	Fruits and Vegetables Fish Meat Other Fresh Foods	2.—Cooked Foods	3.—Canned Foods:	Jams Milk and its Products Fruits and Vegetables Meat Fish Other Canned Foods	Olive Oil Sesame Oil Linseed Oil Lettuce Oil Sufflower Oil Cotton-Seed Oil

1.8	1.00.1 1.
2 5 5 - 0 5	1.1 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
222	854 854 854 854 854
13	323 323 833 677 10 10 10 10 10 10 10 10 10 10
1,130	2, 424 6, 429 2, 429 3, 429 3, 137 3, 218 3, 141 1, 042 2862 1, 042 2862 1, 042 2862 2862 1, 042 133 109 277
1,178	2, 284 2, 291 2, 294 3, 526 3, 526 3, 263 3, 263 3, 263 3, 263 3, 263 3, 263 3, 263 3, 263 3, 263 3, 272 3, 272 3, 272 3, 272 3, 272 3, 272 3, 272 1, 301 2, 282 110 2, 821 1, 301 2, 821 1, 833 1,
121	1,131 1,
85 126	1,137 160 160 122 312 312 312 170 60 60 60 194 210 100 39 56
2,449	80 17 17 24 24 4 4 4
11	3 
50,439	6,224 
(5) Different Foods: Flour	Sweets ard Chocolates Sugar Curdled Milk Butter Cream Cheese Masli Margarine Halawa Tahinia Tea Coffee Cocoa Vinegar Alcoholic Liquors Non Alcoholic Drinks Seeds and Corns Nuts and Almonds, etc. Spices Tahina white Honey Tin

# Table No. 81. - Statistics Showing Work done by Food Control gangs in Customs Houses during 1950

## A. - Consignments Examined and Results of Samples taken therefrom.

No. of Consignments Examined	No. of Samples		Results of Analysis	
	taken	Genuine	Unfit	Adulterated
35, <b>16</b> 9	1,290	874	214	20 <b>2</b>

# B. - Foodstuffs Condemned or Refused their entry into the Country

Kind	of Foo	ds					Kgrs.	Boxes, Sacks or Drums	Bottles	Cans
						;				
-Fresh Foods:										•
Vegetables	•••	•••	•••	•••	•••	•••	52,755 26,142 22,399	1,060 914		
-Canned Foods:								0.5		
Jams and Dried Fruits	•••	•••	•••	• • •	•••	•••	$79,984 \ 26,475$	$\begin{bmatrix} 27,267 \\ 2,044 \end{bmatrix}$		43
Milk	• • •	•••	•••	•••	•••	• • •	58,142	2,299		2
Fish	•••	•••	•••	•••	•••	•••	22,954	4,631	<del>,</del>	
	7									
-Oile:			q				170	K		
Cotton seed oil Butter and Masli	•••	•••	• • •	• • •	•••	•••	172 1 <b>5,782</b>	5 705		_
Butter and Mash Fat and Margarine	•••	• • •	•••	•••	• • •	•••	1,150			1
-Other Foods:	•••	•••	•••	•••	•••	•••	705	917		-
Flour	•••	• • •	•••	• • •	•••	•••	1 <b>31</b> ,691 7 <b>4</b> 8	1,016 1,584		
Flour Products Seeds and Corns	•••	•••	• • •	• • •	• • •	•••	10,143	856		
Nuts and Almonds						<b>§</b>	85,851	1,877	\ <u>-</u>	
	• • •	•••	• • •	•••	•••	(	19,859 6,408	$\begin{array}{c c} 3,299 \\ 3,931 \end{array}$		
Spices Sweets and Chocolate	•••	• • •		• • •	•••		1,069	3,445		
Tea	•••	•••		• • •	•••		130,308	2,005		-
Coffee		• • •	•••	• • •	• • •	•••	1,966	198	1 050	
Alcoholic liquors	•••	• • •		• • •	•••	•••	64,199	42 297	1,352	
Sugar Chemicals	•••	•••		• • •	• • •	•••		100	12	
Tamarind	•••	•••		•••	•••	•••	5,080	100		
Dry Beans	•••	• • •	•••	•••	•••	•••	3,480	237	-	
Egg Powder	•••	• • •	•••	•••	•••	•••	9,994	63		
			Тот	ΑT	•••	•••	776,827	58,950	1,364	1,00

Table No. 82 (A)—Consignments of tea and those of Inferior quality imported to Customs Houses during 1948, 1949 and 1950.

Names of Customs		nents of tea i	_	Consignments of tea of inferior qua			
	1948	1949	1950	1948	1949	1950	
Canal Customs House	1,086	2,047	1,942	1	34	12	
Alexandria ,, ,,	612	985	1,461	4	8	29	
Suez ,, ,,	230	355	718		1	3	
Damietta ", ", ",	-	_	_	-		_	
Cairo ,, ,,	2	1	149			_	
Total	1,930	3,388	4,270	5	43	44	

## (B)—Different Samples of Foodstuffs taken during 1950

Total number	Genuine	Adulterated	Unfit
27,546	25,664	1,028	854

Table No. 83.—Different Samples of foodstuffs (Genuine, Adulterated and Unfit)

At three important Localities Having no sanitary inspectors.

Name	of Locality	Year	Total Number	Genuine	Adulterated	Unfit
Luxor		1948 1949 1950	148 282 408	137 247 383	5 7 9	6 28 16
Mallawi	{	1948 1949 1950	172 155 177	154 138 <b>166</b>	15 16 10	3 1 1
Fouadia	{	1948 1949 1950	1,066 999 711	967 934 675	30 17 18	69 48 18

TABLE No. 84.—DIFFERENT SAMPLES OF FOODSTUFFS (GENUINE, ADULTERATED AND UNFIT)

AT THREE IMPORTANT LOCALITIES HAVING SANITARY INSPECTORS.

Name of Locality	Year	Total Number	Genuine	Adulterated	Unfit
Mansoura {	1948 1949 1950	1,347 1,440 1,556	1,20 <b>7</b> 1,3 <sub>0</sub> 0 1,414	65 80 9 <b>7</b>	<b>7</b> 5 60 <b>45</b>
Tanta	1948	1,177	1,072	86	19
	1949	1,686	1,526	128	32
	1950	1,719	1,576	110	32
Giza {	1948	1,455	1,306	119	30
	1949	1,950	1,777	165	8
	1950	2,140	1,870	252	18

Table No. 85.—Samples of tin examined during 1948, 1949 and 1950

Year		Samples examined	Samples adulterated		
1948	•••	142	7		
1949	•••	187	7		
1950	•••	280	3		

# Table No. 86 -Various Statistics, 1950

P.V. drawn up according to article II of Law No. 48 of 1941	P.V. drawn up against Itinerant Vendors	P.V. drawn up against Milk Vendors	Bandars to which the itinerant ven- dors regulations were applied	Bandars to which the regula tions of milk Vendors were applied	No. of itinerant Vendors licensed during 1950	No. of Milk Vendors licensed during 1950		
1,737	9,066	5,529	15	10	1,335	343		

# SAMPLES OF MILK TAKEN AND THE RESULTS OF THEIR ANALYSIS 1950.

No. of Samples						
	Genuine	Adulterated by removal of fat	Adulterated by addition of water	Adulterated by both	Percentage	
13,164	12,094	<b>54</b> 5	475	53	7.65 %	

## PART II. - SOCIAL HYGIENE

# Chapter IX.-Maternity and Child Welfare

During the year, a number of representatives of the foreign press and world health experts paid vists to child welfare units with a view to studying the health and social problems in Egypt. Dr. Taylor and Miss Codleman visited child welfare centres in Cairo and the provinces and submitted a detailed report which is still under consideration. Dr. Plryl Halet, Director of child Welfare in France and Dr. Fieldman also visited these centres and expressed their appreciation of their activities.

Fellowships were awarded by UNICEF and WHO to members of the section to study new developments in child care in France, England, Switzerland and Scandinavian countries

During the year, the Itsa and Abshaway child welfare centres, hitherto under the supervision of Fayoum Provincial Council, have been attached to the Ministry.

A clild welfare centre was opened on 1/1/1950 at Manchiet el Bakry, Cairo. Souhag centre was transferred to Salama Abdulla memorial home on 27/1/1951.

Two in-patient sections were provided in Suez and Ismailia centres.

Considering the nutritional value of milk, the amount of milk distributed by the centres has been increased threefold.

The child welfare units contributed in the B.C.G. mass vaccination campaign conducted by the Chest Diseases Section in conjunction with WHO and UNICEF by undertaking the vaccination of their births and others.

New transport vehicles have replaced old ones in Cairo. This arrangement is being adopted in the provinces. 30 assistant midwives have been appointed against a credit of L.E. 1,980 under the Labour Act.

TABLE NO. 87.—DETAILS OF THE ACTIVITIES OF THE MATERNITY AND CHILD WELFARE CENTRES DURING THE YEAR UNDER REVIEW:

Cases	Number		
Old Pregnants	524,436		
New Pregnants	131,985		
Blood specimens for Wassermann Reaction	50,732		
,, i, returned positive for Wassremann Reaction	3,003		
Children attending centres	1,917,211		
,, vaccinated against small pox	35,181		
inoculated against diplotheria	31,523		
Confinements attended by midwives	11,598		
,, ,, assistants	110,884		
medical officers	343		
,, from out-side (not registered)	11,691		
Total confinements	122,825		
Confinements forwarded to hospitals	3,008		
Still Dinths full torm	1,009		
within first three months	94		
Promotyro atill hinths	629		
36 . 1 . 10 1 . 1011 Lt .1	51		
- 0 17 7 .7 1.1 1 0 1 .7 0 7 17 0	703		
	515		
Medical officers visits to sick puerperals	\ \ 46,012 by midwives		
Visits to pregnants during 9th month	3,386 by assistants		
,, to pureperal mothers	95,280 by midwives		
	1 51,041 by assistants		
Other visits	37,331		
Visits to homes of pregnants	44,401		
$\mathcal{L}_{\mathbf{z}}$ ,, ,, ,, infants	95,190		
Cases of eclampsia	66		
,, ,, Laceration of Perineum	632		
,, " Placenta Praevia	48		
Visits to puerperal fever cases	3,734		
Specimens of urine taken	52,090		
Prenatal albuminuria	11,140		
,, diabetes	229		
Lectures delivered by medical officers	5,573		
,, ,, ,, midwives	6,965		
,, ,, health visitors	12,791		
Food contributions to mother and babe	333,754 kgs.		
Ready made garments contributed	2,763		
Cloth Material	6,340 metres		

## Chapter X. - Chest Diseases

## Statistical Data:

According to the 1949 report, a total of 95,292 positive tuberculous cases diagnosed by the Chest Diseases dispensaries were recorded between 1929 and that year. A further 11,404 positive cases were detected during the year 1950, making a total of 106,696 cases at the end of 1950.

During the year, the following units were opened:-

- 1.Mellawi Chest Diseases Unit-on 15/10/1950, with an out patient dispensary, an in-patient department and a children's preventorium (opened in November 1950).
- 2. Zagazig Chest Diseases Hospital—constructions completed and opened on 11/11/1950.
- 3. Shebin El Kom Chest Diseases Dispensary—In-patient department opened on 2/12/1950.
- 4. Damanhour Chest Diseases Hospital—constructions completed and opened for treatment on 16/12/1950.
- 5. Stationary Mass Radiography Unit—set up at Mubtadayan Chest Diseases Dispensary in December 1950.
- 6. Stationary Mass Radiography Unit—set up at Alexandria Chest Diseases Dispensary in December 1950.

Thus, the Chest Diseases Units are now as follows:-

24 dispensaries

1 mobile mass radiography unit 'actually annexed to Mubtadayan Chest Diseases Dispensary).

17 branch dispensaries

17 in-patient departments within dispensaries

5 sanatoria

2 surgical T.B. institutions exclusive of Port Said Maritime Sanatorium, which, besides functioning as a chest diseases unit, has received few bone cases.

4 preventoria

1 colony for convalescents.

Patients of Giza Sanatorium have been transferred to Almaza Sanatorium as from 13/4/1950 and those of Sherbin In-patient Department to Damietta Chest Diseases Hospital as from 9/5/1951, owing to the demolished condition of the buildings.

The headquarters of the Mass Radiography Mobile Unit has been transferred from Khalifa to Mubtadayan Chest Diseases Dispensary as from 28.9.1950.

The Alexandria Preventorium was closed down and resident children placed in the care of the Women's Society for Health Improvement under an agreement whereby an annual sum of L.E. 2,000 would be contributed to the Society for keeping such children as may be forwarded by the ministry who retains technical supervision.

The following are the occupations of tuberculous patients detected during the year 1950:

699 Tradesmen consisting of:

164 foodstuff vendors,

53 poultry and cattle merchants,

134 grocers,

61 fruiterers and

287 other trades.

## 899 Employees including:

- 438 civil servants,
- 181 commercial employees,
  - 43 teachers and
- 237 other employments.
- 3,124 Craftsmen consisting of:
- 118 cooks, 77 waiters, 193 barmen, 118 domestic servants, 80 servants (farrashes), 59 gate-keepers, 160 barbers, 96 laundrymen, 168 drivers, 183 tailors, 127 shoemakers, 150 carpenters, 114 painters, 134 building labourers, 121 employees in cigarette firms, etc. 398 weavers, 200 mechanics, 71 printers and 557 other occupations.
  - 2,136 Farmers.
  - 445 Pupils.
  - 4,104 Unemployed including:
    - 2,572 invalids
      - 754 children
      - 775 unemployed.
- Of 188,020 new patients examined during the year, 11,404 were found positive for tuberculosis. Of these, 762 were children (less than 10 years old) and the remaining 10,642 were adults.
- Of 7,288 contacts, (3,419 children and 3,869 adults) examined, 194 developed tuberculosis.
- 34,731 home visits were paid this year by health visitors and 8,663 by medical officers.

Appended to this report are detailed statistical data of the work carried out by the various dispensaries and other institutions.

RESUME OF ACTIVITIES IN MEDICAL AND SOCIAL SPHERES.

Medical, social and preventive activities proceeded according to plan.

During this year, the following measures were undertaken:-

- I. In persuance of the policy of developing the anti-tuberculosis service in Egypt, the Ministry has, with the aid of the inhabitants, completed the construction of several institutions for tuberculosis, namely:
- (a) Mellawi Chest Diseases Unit erected on a site of land three feddans in area. It consists of an out-patient dispensary, a 35-bed in-patient department, and a 60-bed preventorium. The total cost of the buildings amounted to L.E. 40,000 of which L.E. 10,000 were contributed by Abdel Meguid Seif El Nasr Pasha. The unit was opened for treatment on 15/10/1950.
- (b) Damanhour Chest Diseases Unit erected on a site of land about five and a half feddans in area. It consists of an out-patient dispensary and a 100-bed in-patient department and is capable of future expansion. The total cost of the buildings amounted to L.E. 70,000 of which L.E. 29,153 were contributed by the inhabitants of the Province. The equipment cost L.E. 10,000. The unit was opened for treatment on 16/12/1950.

(c) Zagazig Chest Diseases Hospital - erected on a site of land about two feddans and a quarter in area. It consists of an out-patient dispensary and a 50-bed in-patient department and is capable of future expansion. The total cost of the buildings amounted to L.E. 8,000. Equipment of the hospital cost L.E. 2,000. It was opened for treatment on 11.11.1950.

II.—B.C.G. Vaccination: According to an agreement between the Government of Egypt and the World Health Organization, a B.C.G. vaccination campaign was launched for one year, then sanction was obtained to prolong the period of stay of the international teams till 30.6.1951. Meanwhile, the Egyptian teams were increased to 16, besides 6 stationary centres in dispensaries. Test examination was undertaken throughout the Country. The Chest Diseases Section has undertaken the training of all its medical officers and nursing staff in the vaccination technique; and steps were also taken, jointly with the Child Welfare Section, and the School Hygiene to train their medical staff, so that they might co-operate with the Chest Diseases Dispensaries in this work. Arrangements have also been made for all the dispensaries in the Country to act as vaccination centres, besides the provision of some mobile teams for this purpose.

The total number of persons tested by tuberculin from the beginning of this Campaign on 1.12.1949 until the end of January 1951 amounted to 1,155,465. 336,483 of these have been vaccinated. They can be distributed according to the various Governorates and Provinces as follows:

Table No. 88

Cairo Govern Canal ,, Suez ,,	orate	•••	• • •		,	
Canal ,,	orate		•••			
Suoz		• • •			67,820	27,834
Suez			• • •		1,390	122
,,,		•••	•••	• • •	31,351	11,431
Damietta		•••	•••	• • •	52,707 =	17,869
Gharbia Provi	nce	•••	•••		332,200	84,073
Fouadia ,		•••	•••		3,023	607
Menoufia ,,		•••	• • •	•••	284,936	78,002
Dakahlia "		•••	* * *	•••	189,886	56,638
Qaliubia ,,		* * *			2,901	- 373
Fayoum ,,		•••	•••	•••	11,116	3,411
Assiut ,,	•••	•••	···	• • •	75,034	27,173
Gerga ,,	•••	•••			42,264	9,439
Qena .,	•••	•••	•••		6,663	501
Aswan ,,	•••	•••	•••	• • •	45,637	18,016
Sinai Governor	ate	•••	• • •	•••	8,537	994
	To	$ ext{TAL}$			1,155,465	336,483

The approval of the Ministry has been obtained for the erection of a laboratory for the preparation of B.C.G. vaccine within the present buildings of the Vaccine and Serum Institute, Agouza. The laboratory is in course of completion and will be opened during the year 1951. The necessary apparatus have been kindly presented by the World Health Organization. Concentrated tuberculin will be imported from Copenhagen quarterly, and will be diluted at the Vaccine and Serum Institute, Agouza and supplied to the various teams.

The institution of a Central Statistical Office has also been approved with a specialized Statistician from WHO for the inspection of vaccination cards. Egyptian staff will be trained in that office in future.

A Bacteriological Diagnostic Laboratory has been proposed within the Laboratories Department. It is hoped that WHO will provide the necessary equipment.

III. The Section takes special interest in Mass Radiography. Two stationary units for this purpose have been erected: one at Mubtadayan Dispensary and another at Alexandria Dispensary, in addition to the Mobile Unit already in service.

The two apparatus are intended for the examination of attendances at the two Dispensaries, and other localities where this examination is deemed necessary.

The Mobile Unit has already visited various parts of the country. A total of 51,087 cases were examined during 1950, of which 132 cases were returned positive, 1,011 suspicious and 49,944 negative, distributed as follows:

TABLE No. 89

	No. examined	Positive	Suspected	Negative
1. Officers and men of the Police College and Auxiliary Police of Cairo and Provinces	10,412	56	353	10,003
2. Cairo Water Co	953	2	15	936
3. Fertiliser Factory, Abu Zaabal	251	1	11	239
4. Al Horrya Institute and Asylum, Mataria	225	_	7	· 218
5. Mass Survey for inhabitants of Sindibis village	2,879	12	113	2,754
6. Leprosy Colony, Abu Zaabal	784	11	27	746
7. Suez Area: Shell Co. workmen, Petroleum, Police and Government Officials		11	139	4,999
8. Mass Survey of inhabitants of El Serw area	1,670	11	15	1,644
9. Mass Survey of Personnel and Pupils of Mansoura Control of Education		21	162	6,100
10. Mass Survey of Personnel and Pupils of Damietta Control of Education		7	169	22,305
Total	51,087	132	1,011	49,944

Positive and suspected cases were summoned to examination centres, where large films were made for them, and sputum of several cases examined. Annexed is a statistical list of the Mass Radiography Survey carried out during 1949 and 1950.

IV.—Since the annual governmental subsidy of L.E.45,000 provided last year for the aid of poor tuberculosis patients proved insufficient owing to the ever increasing number of needy patients, occasioned by the prevailing bad living conditions, a credit of L.E. 60,000 has been granted this year.

Besides, credits to the value of L.E.3,500 have been contributed by the Municipalities, and a sum of L.E. 1,500 was granted by the Council of Ministers.

The total of L.E. 60,071 were distributed during the year among 3,255 families by the Chest Diseases Dispensaries.

V.—As in previous years, the Section has sent inmates of Helwan and Marg Preventoria to Alexandria during Summer. They were sent in three groups of 30 children each to spend three weeks in the summer resort, and for heliotherapy treatment. They were accommodated at the Maritime Sanatorium, San Stefano. The bus of Fouad Sanatorium was placed at their disposal for transport to and from the sea side. They were under the charge of a social worker.

The following are details of the different courses of treatment given at the units during the year:

Table No. 90.—Treatments followed in the Dispensaries and Results thereof, during 1950

DOMICILIARY TREATMENT					ARTIFICIAL PNEUMOTHORAX						
Number						Number					
	Tuberculous patients 11,75			11,754	Patients treated with A.P 4				4,147		
CONDITION ON IST EXAMINATION				•••	7,858	Ist Inductions				835	
	Sputum	Negative	•••	•••	•••	3,896		Refills	••• ••• •••	•••	41,452
		( Unilateral	•••	•••	•••	4,787		Sputum (	( Positive	•••	3,469
	Lesion	Bilateral	•••	•••	•••	6,967			Negative	•••	<b>6</b> 78
ONDL		Cavitary	•••	•••	•••	5,606			Unilateral	•••	2,842
Ö	Last Sput	um / Positi	ve	•••	•••	6,339	RE	$oxed{ ext{Lesion}}$	Bilateral		1,305
	Examinat	ion Negat					BEF		Cavitary		2,642
	C *					W	CONDITION BEFORE TREATMENT	Haemoptysi	s		436
							Idno T. Un	Unilateral A	A.P		3,597
ENT				•••			Bilateral A.	P	•••	504	
Treatment	Died		•••	•••	·		Extrapleu <b>r</b> a	l A.P	•••	<b>3</b> 3	
,			•••	901		Pneumo-Per	ritoneum (P.P.)		` 13		
RESULT OF			•••	•••	•••	4,249		Continued r	efills		2,763
RESU				•••	•••	3,418	SE SE	Adhesions			252
·	Light work		***	•••	•••	2,587	STOPPEI A.P. & CAUSE	Bilateralizat	ion		<b>354</b>
, (	Full work	••• ••• •••	•••	•••	•••	<b>59</b> 9		Effusion		•••	221
							, {	Sputum still	positive		1,545
						•		Sputum still	negative	•••	798
					*			Sputum retu	rned negative	•••	1,606
							ZNZ	Sputum retu	rned positive	•••	198
							Treatment	Increase of	weight	•••	2,528
						Decrease ,,	,,	•••	747		
				10 Ti	Stationary	••• •••	•••	671			
				RESULT	Died		•••	201			
					Incapable	of work	•••	956			
						Walking .		•••	942		
								Light work .		•••	1,702
							l	Full work .	•• ••	•••	346
Establishmen a min diam	Separation regions and the familian second							ı			

TABLE No. 91.—Statistics of Patients in Sanatoria and In-Sections of Dispensaries:

(Damanhour, Tanta, Mansoura, Shebin el Kom. Zagazig, Damietta, Sherbin, Zifta,
Fayoum, Beni Suef, Minia, Mellawi, Assiut, Souhag, Aswan); in 1950—

and the Results of Their Treatment.

-	UNI	m S										isp
					Almaza	Abbassin	Giza	Alex- andria	Mehalla Kobra	Suez	Port Said	Sections in Dispersaries
	,											terroriti di
Spu Les Ten	nperature	Positive Negative Unilatera Bilateral Cavitary Normal Abnorma			1,894 1,369 525 1,097 797 666 1, <b>3</b> 79 <b>5</b> 15	790 372 491 671 635 3 <b>5</b> 6 806	243 123 120 116 127 120 148 95	324 270 54 164 160 176 84 240	449 349 100 289 160 138 370 79	72 54 18 56 16 12 20 52	528 341 187 412 116 180 461 67	1,47 76 70 1,0 <b>6</b> 40 67 79
Exe Gel	eral treatmercise ,, d therapy	No. of p	 atient	ns	1,894 220  -		243 243 —	183 164 — — 35	1	20 50 	528 462 — —	
A. 1	eptomycin { Injections { P. { tra pleural	No. of p No. of I Induction Refills A.P	Injecti us .	ons	$\begin{bmatrix} -7 \\ 17,202 \\ 904 \\ 11,919 \\ 3 \end{bmatrix}$		153 2,844	1,662 98 1,486	495 181 2,622	30 <b>4</b> 85 —	239 1,964 132	6,20 49 12,20
Phr Plet Asp The	cenic Crush urotomy pration pracoplasty hesioctomy		•••		$\begin{vmatrix} 401 \\ 27 \\ 472 \\ 101 \\ 5,359 \end{vmatrix}$	15 249	_ _ _	$\begin{bmatrix} -6 \\ -24 \\ -21 \end{bmatrix}$		$-{5\atop 5}\atop 2\atop 15$	9 81 1 36	
No.	nplications of other is went on le quest Pts.	•	d not i eatme	nt	50 9,475 323 476 114	15,018 13 572		$\begin{bmatrix} 3.211 \\ 10 \\ -137 \end{bmatrix}$	$\begin{bmatrix} -1,025 \\ 24 \\ -100 \end{bmatrix}$	$egin{array}{cccc} -242 & & & 2 \ & 2 & & 1 \ & 25 & & \end{array}$	4,240 20  143	4
	ement of Ph		of we	$ m_{ight}$	981 1,227 512	520 683	196 182 2 <b>6</b>	$   \begin{array}{r}     177 \\     201 \\     73   \end{array} $	325 302 100	44 52 8	365 316 144	92 25
	mperature	Stationar Normal Abnorma	ry .		155 1,318 576 814	815 347	35 192 61 102	50 173 151 196	403 4 <b>6</b>	12 58 14	68 472 56 111	1,17
$\int S_{F} v$	ıtum {	Still pos Still neg Became Became	gative negat		<b>3</b> 36	115 355	102 12 108 21	49 74 5	134	$-47 \\ 25$	187 131 99	51 34 1
A.H Cor Cor	ccessful A.F. failed adition impadition worndition stated	continue  roved se	ed .		100 377	$\begin{array}{c c} & 69 \\ 287 \end{array}$	103 29 80 31	$-12^{\circ}$ $93$ $82$ $24$	60	45 7 51 6 8 7	239 23 379 13 92 44	20 93 10
Abil verage du	ity to Work ration of saved 6 more	(Incapab tay in day	rk . work ble . ys .		1,251 479 136	38 419 601 173	105 107 167 175	2 124 174 131	17 206 212 130	19 33 13 210 52	386 98 99 51	3t 5:

Total	26. 26. 26. 26. 26. 26. 26. 26. 26. 26.	11,404
SosaO		1
nawsA	163	182
ВпэФ	£ 4	304
Gerga	3 19 173	195
JuiseA	144 145 334 145	529
siniM	2534	265
Layoum	257	092
Beni-Suef	4 P P P P P P P P P P P P P P P P P P P	199
Giza	36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	614
siduils()	110 109 68 937	339
Sharkia	10 11 343 343 11 11 11 11 11 11 11 11 11 11 11 11 11	380
Dakahlia	280 280 345 134 134	1,074
Menoufia	115 120 250 1 1 1	301
sibsuoA	98   13   13   148   13   148	142
BidzadD	33 33 111 8 83 83 83 83 159 119 119 119	1,258
Већега	220 220 45 14 11 11 11	302
zeuZ , lanaO siliamaI bna	25	377
bis2-3704	394	397
Danietta	3 1777	181
sinbasselA	6 88 689 210	818
oriaO	1,392 844 844 1,040	3,284
Dispensaries	Boulaq  Mubtadayan  Khalifa Damanhour  Alexandria Baccus Tanta Mansoura Shebin el Kobra Zagazig Damietta Port Saïd Sherbin Zifta Suez  Fayoum Beni Suef Minia Mellawi Assiut Souhag Qena Aswan	TOTAL

TABLE No. 93.— Cases Reported Dead to Dispensaries during the year 1950, according to Ages.

Dispensaries	1-5 Years	5-15 Years	15-25 Years	25-35 Years	35-45 Years	Above 45 Years	TOTAL
Boulaq	29	34	78	90	40	23	294
Mubtadayan	4	15	72	56	16	10	173
Khalifa	6	29	49	35	25	6	150
Damanhour		2	16	16	17	10	61
Alexandria	15	10	16	18	6	9	74
Baccus	1		5	3	1	Name and a	10
Tanta	3	4	11	9	9	11	47
Mansoura		5	18	17	7	8	55
Shebin el Kom	-	]	14	25	8	1	49
Mehalla el Kobra	Ngama-rang.	2	19	27	23	5	76
Zagazig	_	1	7	6	6_	3	23
Damietta	2	. 5	15	20	2	3	47
Port-Saïd	magnetic reads	7	28	21	12	12	80
Sherbin	4	11	<b>2</b> 3	14	11	3	66
Zifta	5	4	10	13	8	5	45
Suez		-	5	13	9	2	29
Fayoum	Ng.dinglace-sale <sub>g</sub>	4	23	35	17	3	82
Beni Suef	1	3	11.	12	1	5	33
Minia '		4	16	15	11	4	50
Mellawi	_	1				- Colorest	1
Assiut	1	7	19	8	8	6	49
Souhag	4	7	7	6	4	4	32
Qena	2	3	8	11	6	10	40
Aswan	1	2	5	6	3	5	22
Total	78	161	475	476	250	148	1,588

Table No. 94.—Number of Various Units Attached to the Section and its progress year after year from 1929 to 1950.

	en approximation and an artist and an artist and artist artist and artist and artist artist and artist artist and artist artist and artist artist artist artist and artist			Chest Disc	eases Di	spensaries	Chest	T.B.Bone		T.B. Convales
		ar		Dispensaries	Branches	In-Patient Sections	Sanatoria	Sanatoria	Preventoria	Colonies
1929	•••	•••	•••	2					_	_
1930	•••	•••	•••	3	_		_		_	
1931	•••	•••	•••	3	_		-		_	_
1932	•••	• • •	•••	3	_		_	_	_	-
1933	•••	•••	•••	4		_	-	- 1		_
1934	***	•••	•••	4			1	-		_
1935	•••	•••	•••	5	_	*****	1			
1936	•••	•••	•••	6			1	1	-	
1937	•••	•••	•••	8			1	1	<u> </u>	
1938		,	•••	12	_	2	·2	1	1	_
1939	•••	•••	•••	13		2	2	1	1	_
1940	•••	•••	•••	14	_	4	2	2 1 .		_
1941	•••	•••	•••	14	1	4	2	1	4	_
1942	•••	•••	•••	15	3	6	2	. 2	4	_
1943	•••	•••	•••	15	. 3	6	2	2	4	1
1944	•••	•••		16	4	. 8	3	2	4	1
1945	•••	•••	•••	17	4	10	3	2	4	1
1946	•••	•••	•••	19	12	12	4	2	4	1
1947	•••	•••	•••	19	14	12	5	2	4	1
1948	•••	•••	• • •	21	15	13	5	3	4	1
1949	•••	•••	•••	24	17	15	5	3	4	1
1950	•••	•••	•••	25*	17	17	5	3	4	1

<sup>\*</sup> Including one mobile Dispensary.

Table No. 95.—Annual Return of Beds Available in the in-patient Units at the end of the year 1950

Unit		lst. (	Class	2nd. (	lass	3rd. Class	Paying	3rd.	Class G	ratis	for	
UNIT		F.	м.	F.	м.	F.	М.	F.	M.	Children	75 2 1	TOTAL
Almaza Sanatorium			10	_	72		132		520	_	<b>12</b> 8	862
Abbassia C. D. Hospital				<b>2</b> 8	-	52	_	328	_	80	30	518
Giza Village Sanatorium	•••	_		-	_	_		_	155	_		155
Alexandria Sanatorium		-	_	_	_		7	30	79	10	_	126
Mahalla El-Kobra San torium	a-	_		2	6	3	6	52	88	4	_	161
Suez Ch. D. Hospital		_		1	1	2	2	- 22	22			50
Damanhour Dispensary	•••	_			<u></u>	6	6	20	72	_		104
Tanta ,,				***************************************		_	-	_	20	_	_	20
Mansoura ,,	• • •	_	_	_	_	_	_	10	15	_	_	25
Shebin El-Kom ,,		_	_	_	_	_		9	11	_	_	20
Zagazig ,,					_	_		30	35	_	_	65
Damietta ,,			_	2	2	4	4	<b>6</b> 9	69		_	150
Sherbin ,,		_		_	. —	_	_		30		_	30
Zifta ",		_				_		_	26			26
Fayoum ,,		_	_	_	_	_			30			30
Beni Suef "		_	_					10	15	_		25
Minia "		_			_	_		6	14	_	_	20
Mellawi "			_	_	·—	_	_	. 17	18	<u> </u>	_	35
Assiut "			_	_	_	_	_	25	50		_	75
Souhag ,,		_		_	_	_		4	. 20	_		24
Aswan "		_	_			-	_	7	15		_	22
Maritime San. (Pulmons Port-Said T.B. Box		_	<u> </u>	_	2	8 - 8		31	89 7		_	153 7
Maritime San. Alexandr	ia	-		_	_	_		24	25	51	_	100
Bones Hosp. Helwan		-	_	1	3	4	12	60	65	55	_	200
Helwan Preventorium	•••	-		_	_	-	_	_	_	90	_	90
Marg ,,	•••	-	_	-	-	_	-	_ =	-	50	_	50
Mellawi "		_	_	_	_	_	_	_	_	55		55
Assiut ,, Convalescents Settleme	nt,	_	_	_	_	_	_	_	— 82	50	_	50 82
Marg	•••					· · · · · · · · · · · · · · · · · · ·	and distributed the same about the same	Bhiline - Arthur	Families			Families
Total	***	-	10	34	86	79	180	754	1,572	457	158	3,330

# Table No. 96.—Account of Expenditures of the Chest Diseases Units—during the Year 1950

		ment lents		Water, and	ort	ses			Grant	8
Unit	Salaries	Equipment Instruments & Drugs	Diets	Rent, Wate Light and Sewage	Transport	Expenses Mi cellancous	TOTAL	Sums	paid	No. of Families
	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	M.	
Boulaq Disp	2,832	329			930	13	4, 604	11,480	426	410
Mubtadayan ,,	3,162			257	666	17	4,378	5,937	693	404
Khalifa ,,	2,880			251	101	199	4,932	12,978	297	460
Damanhour ,,	1,580	5,688	173	141	159	1	7,746	1,625	698	153
Alexandria ,,	1,618	140	din comeny	214	382		2,383	5,411	337	220
Tanta ,,	1,854	508	1,036	129	48	20	3,595	[1,040]	163	67
Mansoura ,,	1,982	56	1,117	70	45	1 1	3,310	1,116	400	193
Shebin El-Kom ,,	1,504	456	80	339	2	70	2,45	-1,508	915	76
Mehalla El-Kobra ,,	1,168	424	6	141	127	19	1,885	1,583	125	123
Zagazig ,,	3,301	407	1,308		3	151	5,021	1,709	624	145
Damietta ", …	4,544	431	6,326	1	279	158	11,942	2,467	260	263
Port Said ,,	5,527	2,749	7,615	462	22	57	16,432	1,851	770	92
Sherbin ,, Zifta ,,	$\frac{1,533}{2,597}$	212	467	97	137	16	2,462	1,662	566	87
Suga	$\frac{3,527}{2,156}$	$\begin{vmatrix} 5 \\ 13 \end{vmatrix}$	911	264	$\frac{14}{c7}$	26	2,747	711	414	36
Favoum	$\begin{bmatrix} 2,156 \\ 1,997 \end{bmatrix}$	$\frac{15}{492}$	3,044 $1,685$	20	67	38	5,338	1,032	176	63
Reni Suef	$\begin{bmatrix} 1,957 \\ 1,757 \end{bmatrix}$	492	995	$\begin{array}{c} 169 \\ 197 \end{array}$	$\frac{226}{1}$	50	4,619	1,313	080	115
Minia	1,842	222	1,025	$\begin{vmatrix} 197 \\ 229 \end{vmatrix}$	60	32	2,982	652	533	38
Mellowi	596		$\begin{array}{c} 1,023 \\ 224 \end{array}$	449	15	$\begin{vmatrix} 32 \\ 4 \end{vmatrix}$	3,410 839	878	954	57
Aggint	2,452	2,293	2,800	$\frac{-}{262}$	$\frac{15}{222}$	143	8,172	$\frac{-}{2,030}$	200	
Souhag ,,	1,246	600	1,294	300	$\begin{bmatrix} 222 \\ 2 \end{bmatrix}$	118	3,560	$\begin{bmatrix} 2,030 \\ 1,200 \end{bmatrix}$	$\begin{array}{c} 398 \\ 455 \end{array}$	$\begin{array}{c} 92 \\ 82 \end{array}$
Qena ,,	1,141			99	$3\overline{6}$	317	1,593	419	708	$\frac{c_2}{20}$
Aswan ,,	1,502	337	1,337	334	30	42	3,582	1,459	343	$\frac{20}{49}$
Almaza Sanat	32,155	1,240	49,136				106,415		- 020	40
Abbassia Hospital		13,452	25,019	1,794	428	1,973	62,431			
Giza San	7,309	1,150	14,103	25	222	506	23,315		_	
Alexandria ,,	4,961	2,239	6,558	283	4	121	14,166	_	_	
Mehalla El-Kobra ,,	6,282	[3,650]	9,597	2,420	219	59	22,227	_	_	
Alexandria M. ,,	2,609	263	4,970	137	6	317	8,302			
Helwan Disp.	7,287	[2,343]	9,046	289	78	27	19,070		_	
Marg Colony	9,742	59	902	51	93	148	10,995			_
Helwan Prev	2,742	143	1,571	11	33	90	4,590	-	_	
Marg ,,	420		284	_			704			
Assiut ,,	840	267	693	123	11	139	2,073	_	1	
B.C.G. Mission	6,267	153	-	1,500		2,710	10,630	-	-	_
Total	150,086	41 602	152 200	22 662	5 040	10 500	200 40%	00 07/4		0.075
TOTAL	100,000	11,098	153,322	~5,00%	3,049	18,596	392,407	60,071	335	3,255

٠.
950
0
_
2
3.4
$\sum_{i}$
10
R
$\asymp$
-
ES
H
JNITE
H
THE
OF
SI
Ъ
E
0
RECEIPTS
-
OF
0
TATEMENT
<u> </u>
$\Xi$
TE
A
ST
-
1
LE
I
E
DETAILE
$\vdash$
7
JA
Z
Z
4
1
0
~
1
(A)
BI
A

Total	M.		1	1	1	1			1	1	1	4 5
GRAND TOTAL	L.E.							]				24, 443
٦	M.	961	282	Î	387	689	<b>F</b> 20	92	811	119	986	**
Total	L.E.	13,516	6, 433	ı	1,430	318	192	-	486	1,047	280	24,443
eous	M.	902	192		189	739	974		988	179	646	5,009
Miscallaneous Receipts	L.E.	2,058	92	1	15	25	52		70	42	39	2,398
d by tion	M.						1				1	
Articles sold by Public Auction	L.E.	1		,1	1	!		1	1		]	].
ss actors	M.		]	. [		009	545	400	002			220
Deposits from Contractors	L.E.	1	4		1	Ç1	, 4	0	11		1	66
ficial ts	M.	290	290	1			860	098	920		098	080
Fees of Official Documents	L.E.	- 15				ļ	0	0	0		0	930
nts	M.	000	000	1	000	000	000	1	000	000	000	000
Deposits from Patients	L.E.	2,022	708	1	240	27	84		39	174	225	3,519
Fees	M.	200	008		200	300	675		000	009	400	675
Treatment Fees	L.E.	9,420	5,627	1,	1,174	323	418		365	831	322	18,483
Unit		Almaza Sanatorium	Abbassia Hospital	Giza Sanator'um	Mehalla el Kobra "	Alexandria ,,	Suez Hospital	Damanhour "	Damietta "	Port-Saïd Sanatorium	Helwan Bones Hospital	Total

RECEIPTS OF THE VARIOUS WORKSHOPS AT THE T.B. CONVALESCENT SETTLEMENT AT MARG

M.       L.E.       M.       L.E.       M.       L.E.       M.       L.E.       M.       L.E.       M.       L.E.       M.       L.E.       M.       L.E.       M.         670       940       600       310       689       8       723       —       2,441       825       2,441       825	rs p	Carpenters Workshop	Tailors Workshop	dor •	Shoemakers Workshop	akers hop	Tinsmiths Workshop	ths	Brooms Workshop	si Si	Miscellaneous Receipts	neous pts	Total	1	GRAND TOTAL	loran
940 600 310 689 8 723 — — 2,441 825	L.E	L.E	L. E.		L.E.		L.E.	M.	L.E.	M.	L, E.	M.	L.E.	M.	I.E.	M.
	926	143 976		029	940	009	310	689	∞	723	1	1	2,441	88	2,441	893

REMARKS Discharged Sanatorium Contacts THE YEAR 1950. Convales. 3 4 Contacts 63 Convales. 10 12 6 92 22 22 ೞ 07 Occasional Diseases 4 07 COLONY DURING A.P. 225 188 173 175 170 189 285 169 281 264 131 231 2481 Clinic Öther Relatives Sisters Relationship to Contacts No. 98.—Annual Return of Cases Admitted to Marg T.B. Convalescents 0 65 Brothers Spod 3 4 oliW Mother Father under treatment Convalescents still Other Industries Occopations of Convalescents Peauant 65 Shoe-Maker 07 8 Timsmith · ToliaT Carpenter Ароче 50 Уелгя Ages of Convalescents 8789 X 81-02 €2 30-39 Yeers 8 20-29 Xears 8 TABLE Below 20 Years No.of new Convalencents 07 9 TOTAL ... Month September ... November ... December ... October February March ... January Angust June April

83 8 Convales. discharged during the year of No.

79 9

1950

admitted du

No. of Convales. on 1st. Jan. 1

on 31st December,



																	New	Онп	DEI
											AGES	S							
Preventoria	ohildren	less	than	1-2 y	ears	2-3 y	ears	3-4 y	rea <b>r</b> s	4-5 y	ears	5-6 y	ears	6-73	years	7-8	years	8-9 y	ear
	No. of new	M.	F.	М.	F.	M.	F.	M.	F.	М.	F.	М.	F.	M.	F.	М.	F.	М.	F.
																			_
Helwan	86	14	11	5	6	-	1	3	2	3	3	2	2	2	4	4	5	3	
Marg	32	-	-	-	—	-			_			11	5	7		1	<b>-</b> .	1	
Assiut	34	5	2	1	-	2	7	1	2	2		_	2	3	2	2	-	1	J
Mellawi	8	-	*alayamiya			-		discourse	-		1				-		<b>—</b> ´	-	7
Total	160	19	13	6	6	2	1	4	4	5	4	13	9	12	6	77	5	5	

REMARKS: (1) Alexandria Preventorium was joined to Women Society on 1.1.50.

(2) Mellawi

was opened within Mellawi chest diseases unit and commenced in November 1950.

		Helwan	Marg	Assiut	Mellawi
Number of	Children on 1st. January 1950	74	28	31	· <del>-</del>
**	" admitted during the year	86	32	3 <b>4</b>	. 8
,,	,, discharged ,, ,,	117	16	31	. 2
"	" on December 31, 1950	43	44	34	6

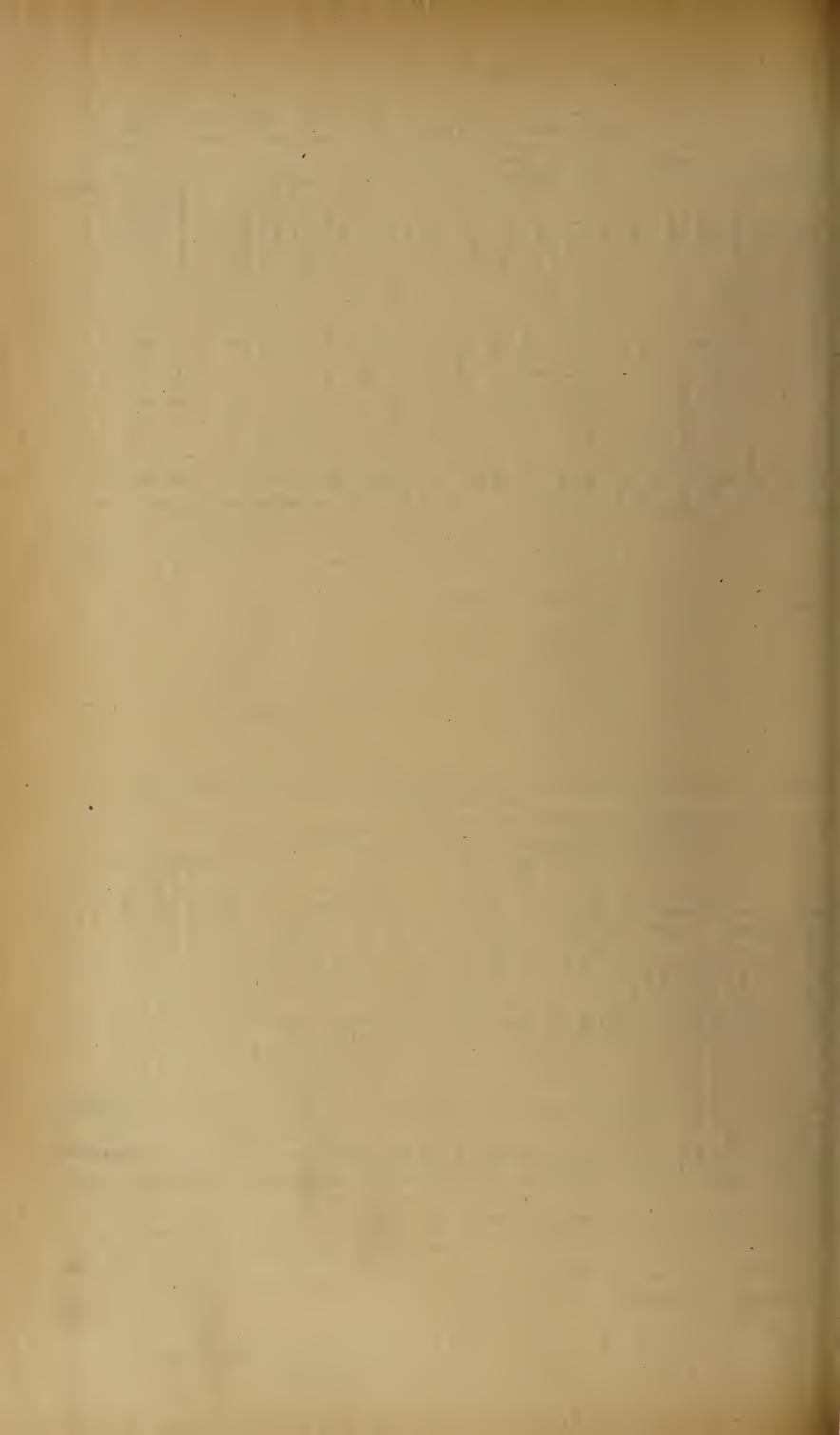
TABLE No. 100.—Annual Return of Bone Surgery Units—During. 1950.

								Our-	PATII	ent S	ECTIO	N								
				New 1	Patients	1							Old	Patie	ents					1
ents		****	Age	5				Ca	ses		ients		Ca	808		Treat	ment	rations		
new	Under	5 years	5–10	years	Above	10years	ckets	Spine	B. of Joints	diseases	plo	ckets	Spine.	B. of joints		ectricity	ra violet		XRay	
No. of	м.	·F	M.	F.	М.	F.	Ric	T.B.	Bones T.	Other	No. o	Ri	T.B.	Bones	Other	By El	By Ult			-
305	41	30	<b>4</b> 5	25	92	72	3	65	94	143	321	2	40	89	190	-	49	10	98	12
\ <u>{</u>		_		-			-					_				-	-	-	-	-
953	86	43	106	71	345	302	2	258	274	419	1043	2	312	428	301		-	-	-	
1258	127	73	151	96	437	374	5	323	368	562	1364	4	352	517	491	-	49	10	93	177
	305 305 953	Wulder William	Under 5 years	Under 5 years   5-10     Jo   M.   F   M.     305   41   30   45     -   -   -     953   86   43   106	Ages  Under 5 years 5-10 years  M. F. M. F.  305 41 30 45 25	Ages  Under 5 years 5-10 years Above  M. F. M. F. M.  305 41 30 45 25 92	Under 5 years   5-10 years   Above 10 years	Ages  Under 5 years 5-10 years Above 10 years 5 305 M. F. M. F. M. F. 305 41 30 45 25 92 72 3	New Patients   Ca   Ca   Ca   Ca   Ca   Ca   Ca   C	New Patients   Cases   Cases   Under 5 years   5-10 years   Above 10 years   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   F.   M.   M	New Patients   Cases   Cases   Cases   Under 5 years   5-10 years   Above 10 years   Standard   S	New Patients   Ages   Cases   Study   Study   Cases   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Study   Cases   Cases   Study   Cases   Cases   Study   Cases   Cases   Study   Cases   Cases   Study   Cases   Cases   Cases   Study   Cases   Cases   Cases   Study   Cases	Ages   Cases   Study	New Patients   Old	New Patients   Old Patients   Cases	New Patients   Cases	New Patients   Old Patients   State   Cases   Cases   Cases   Treat   Cases	New Patients   Cases   State   Cases   Treatment	New Patients   Old Patients   State   Cases   Treatment   Cases   Cases   Treatment   Cases   Cases   Treatment   Cases   Ca	New Patients   Old Patients   Ages   Cases
				Alexandria M.S.	Port-Said M.S,	Helwan B.H.														
-------	------	---------	--	-----------------	----------------	-------------														
umber	of.p	atients	on 1st January 1950 admitted during the year	94 117		176 458														
,,	"	22		115	7	418														
69	,,	29	discharged ,, ,, ,, on December 31, 1950	96																
		,,	on December 31, 1990	00	1 2	210														

# PREVENTORIA DURING THE YEAR 1950.

MT	TTED																						2	
					]	Detail	s reg	arding	g rela	tions			Man	toux	Test		seases during						13-	
.0 :	years	Relations. Condition.												n Chi	ld							char	gen	
•	F.	м.	F.	Father	Mother	Brother	Sister	Others	Died	Alive	Sputum Neg.	X.Ray pos.	Positive	Negative	Not Done	Skin	Stomach	Enteric	Ophthalmic	Chest	Other diseases	Discharged	Died	Remarks
1	2	4	4	46	33	4	2	1		86	5	81	5	9	72	8	2	44	20	14	71	102	15	
2	_	3	1	22	5	2	2	1		32		32	_	6	26	_	_			-	14	16		
2	1	2	3	15	18		_	1	1	33	34	_			34	18			42	2	34	30	1	
1	-	5	1	2	1	-	-	5	_	8	3	5	8		_	_	_	-	3			1	1	
6	3	14	9	85	57	6	4	8	1	159	42	118	13	15	132	26	2	44	65	16	119	149	17	

										1	IN-PA	TIENT	SECT	ROL									÷	
				1	New E	Patien	ts								Dis	scharg	ed							
ептв			Ag	ges						nts	88	Discharged			Resul	t		Trea	atment	Operations	Operations		A	n Inj.
Admitted	Une 5 ye			10		ove rears	T.B. Spine	T.B. Knee	T.B. Hip.	. bones joints	Other diseases	pat.	Died	Cured	Stationary	Improved	arged in	Electricity	Ultra-Violet	Major Opera	Minor Oper	Plaster	XRay	Streptomycin
o out	м.	F.	M.	F.	М.	F.				T.B.	10	No. of	A		Stat	Im	Discharged	By E	By Ul	- M				
117	20	14	15	11	.33	24	50	15	21	25	6	115	. 3	19	18	39	36	- \	66	4		226	212	720 
11	1	1	_	3	2	4	1	-	2	8	_	7			4	1	2	1					_	314
452	16	3	56	- 38	195	144	127	129	29	86	181	418	9	254	57	77	21	_	232	25	5	277	943	7647
580	37	18	71	52	230	172	178	44	52	119	187	540	12	273	79	117	59	1	298	29	5	503	1155	8681



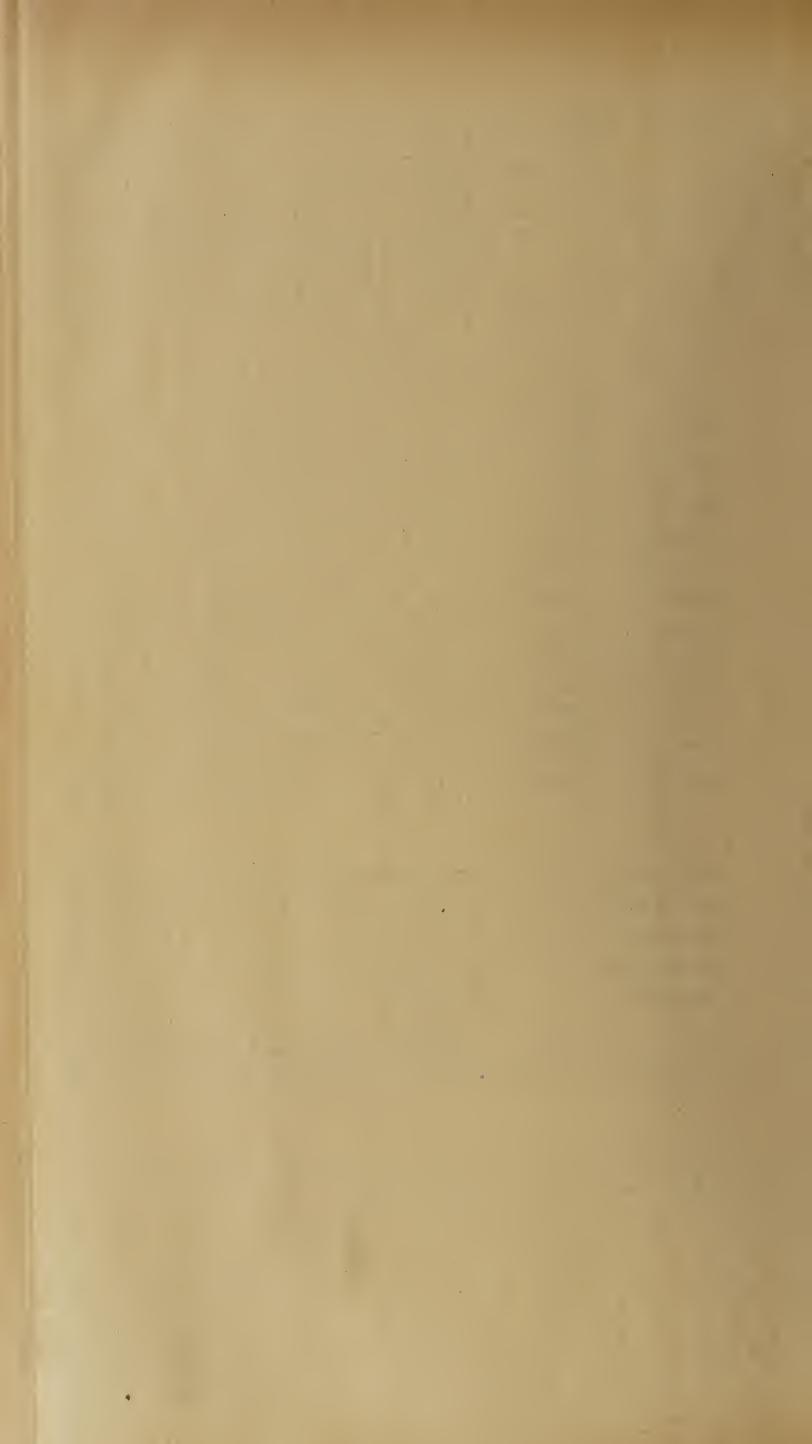
## Table No. 101.—Annual Return of Chest Diseases Dispensaries during the Year 1950

																l N	ew Conta	ets   d		Sout	ım Exam	in ation		Y_R	ay Examin	nation	Exan	n. of (Sana	t.)	Old C	Cases (Dis	p.)	Visits (Dis	p.)		Disch	arged Pati	ents			Treatmen	nt				Operation	9			
	18				(New T	.B. Cases	e in the Dis	pensary) o	r (New Patie	ents admi	tted to San	natorium)					(Disp.)	ation	-	Sputu	иш ехиш	1 пвиоп		A-IVE				1		1 1	- i	1 88						Abili	ity to Work	k	2	ent	Int	trapleural umothorax	1 1	Extrap Pneumo			y y	nision 'um
	king cas 8	T.B. Case	18.898			A	Age Groups				Profe	essions		Oisp.)	Classes (Sa	nat.)		bser	ysis	tum			, kay		4	Old Patien				- B	atio	Disea	Bits	se l	m or	- P	P.			Ha	otior	eatm eatm	ion		al olysis		ton	omy	Lang ige opy raph	adr ator Des
Diion	Disp		Dise	From	From	From	From	From	From				ion led	ted		) iii	1 gg	ntaci pr Ol	nopt	Spu Ne	tum of v Cases	Old Ca	of H	New		Und	der 4	ost cost	urs tal	Case	)serv	tacts	S Vis	Visi	putu	rove	iona	lete	lai	ole	Gold	Tree	pirat	8	atern aton On	tion	P. Per	acot	raina hosco	San San
Disbensaries	Case ont (		108 t	1-9	10-19 2	20-29	From 30-39 Years 2	40-49	50-59 60 Y	Years 2	eials men	ants	upat ecor	dmit San.	lst pui	Grat	Adu	8   mg	Hæ	1 of			o l			Pos. Obse	erv A	ž   g	H H	LB.	0 1	Con	urse	. H	1 2 H	Im	Štat W	d'mo,	Part	Unal	ther	roise	As	Ref	In In	onpa	Ref	Thor	Pleu Di roncl	Ref.
	few tmc	Tot	E G	Years	1 ears	Years	1 ears	Yeara .	x ears	Ven	Offic	Peas	Occ Jes r	to to		3rd		H.H.	1	Tota		-	g			No. No.	Pag				Jnde	ther			Pos. N	g.			A = 17		0	Exe G			I Ida		Pne		m m	
	A se H	ι σ	Othe	M. F.	M. F. A	I. F.	M. F. M	d.   F.   1	f. F. M.	F.			C. C.	S		°	_  _	<u>ਹ</u>		No.	Pos.	No.	Pos		Pos.	No. No. I		_  -		_  -			-		-	-  -	-  -													
	-																								2 200	67 1			_   0,49	7 5,390	1.286	892 929	4.602	373 —	_  -	-   -	_   _	$A \mid - \mid$	-   /	_   -	- -	- -	-  -	2,617	-   -	-   -	-   -	1	-	10 294
Boglag	. 10,997	1560 817	743 9,389	83 88	195 111 3	35 225	192 100 1	110 34	49 27 11	_ 8	8 119 568	8 98 55	632 10	50 559	-     -	-   -   3	55 378	38 23	6 45	2.453 2.02	24 817		78 1.3	90 1,302	890	107	_   _	-   -	16.90	7 9.469	1 704 1	210 5 009	4,024	385 —	_  -	_	_   _	_	_   /	_   _ /		- -	192 -	3,665		-		1-1-1	-   -	125 173
Mubtadayan	13.247	1639 789	850 11,608	90 63	161 110 4	02 156	245 116 1	123 49	60 29 29	6 8	6 184 478	8 179 47	665 8	40 218	-     -	-   -   5	72 613	19 52	6 19	2,609 2,27	76 789	9 333	88 1,9	51 1,848	832	101 2	- -	-   -	- 16,39	01 01400	1,704 1	,210 0,000	1 794	262	_   _		_ _	414/	1 - 17	_   _	1-1-1	1-1-1	11 -	3.897	-   -	-		1-1-1	_   _	_ 150
Khalifa	13.337	1192 573	619 12,145	36 53	154 150 2	13 146	160 103	87 44	29 8 8	1 21	6 165 24	7 160 153	251 5	88 405	_   -   -	-   -   4	95 489	22 5	7 418	2.823 1.9	76 573	3 847	229 9	718	472	_ 238	19 —	-   -	- 11.61	0 7.838	1,203 1	,404 48	1.124	300 —	, , , ,			41.7	I = IJ			4 7		29 1,680	1 - 17	-	_ 4	5	_   _	8 61
Damanhour	6 445	268 264	4 6.177	1 _	20 17	88 29	62 14	21 3	10 - 2	1 1	14 18 6	1 102 1	72	99 77	_   _   -	_ 49	62 64	3 1	8 33	788 5	63 264	225	96 3	164 26	3 268	96 -		-   -	—   7·21	8 3.311	71	374 3,462	1,258	613	1 1 -				A = V					2.064	/ _ / /	_	_   _			116 74
	0,240	N24 377	257 9 125	17 19	90 48 9	212 88	108 39	64 10	25 3 9	2 3	33 47 32	2 32 9	291 5	50 300	_   _   -	-	79 101	_ 10	4 3	1,707 1,3	18 377	7 389	115	19 88	544	31 -	-   -	-   -	- 13.87	4 10.356	1,337	489 1,692	2,718	403 —	- -								8	23 708						5 13
Alexandria	9,869	044 077	501 0,100	E 6	21 13	65 99	39 11	29 3	17 2 7	, 1	17 18 10	9 13 8	76 1	19 33	_	_   _ 1	32 123	5 10	9 –	820 5	65 <b>1</b> 85	5 255	C5 -				-   -	_   -	<b>—</b> 7.85	1 2,033	380	318 5,120	-   -		- -									20 1 212	7					10 47
Baccus	. 9,649	241 185	9,408		21 10	00 22	50 20	35 9	19 9 1	2 2	20 32 9	1 69 10	107 1	99 82	_   _   -	_ 66 1	94 195	3 5	2 6	715 4	49 225	5 266	109 8	397 32	3 253	68 3	-   -		- 9.13	2 3.374	532	315 4,911	1,312	315 64	4 29	35 45	12 7	—   9/	31	24 300			10	1,313	/ -   7	-	_   _		-   -	12 47
Tanta	9,247	329 225	104 8,918	4 1	32 18	89 30	75 92	70 12	7 4 2		28 98 9	5 122 9	99 2	78 196	_   _   -	_ 59	42 124	3 2	5 5	1,068 7	07 284	361	203 2	284 15	5 78	111 17	-   -	-   -	— 2·13	6 199	40	38 1,859	1,696	598 56	6 23	33 32	17 7	— 15/	30	11 180	302	- -	17 7	1,873	- 7	-   -		- -		4 55
Mansoura	10,242	369 284	85 9,873	6 4	35 18	84 37	15 32	50 10	70 4 0		10 10 5	8 87 6	101 1	36 75	_ _ -	_ 18	83 109	5 21	1 2	556 4	73 177	7 83	24	113 9	7 92	15] 1		_   _   .	_ 5.76	3,177	1,144	190 1,250	1,420	379 6	6 5	1 -	6 —	-   -	-   /	6 -	— 33 l	- -	1	6 637	- 7	-	-   -	- -	-   -	17 49
Shebin El Kom	9,353	289 177	112 9,064	8 1	12 9	87 31	53 31	23 10	13 0 3		10 10	2 100 11	154 9	24 221	_   _   -	_   _   3	12 333	5 22		950 6	87 336	6 263	€6 8	324 73	1 510	88 5	-   -	_   _   .	8.15	8 6.057	617	381 1,103	1.721	662 —	-  -	-   -	-1-1	-   - /	-	-  -/	— 86	- -	14 —	1,491	-   7	-	-   -	- -	-   -	— 76
Mehalla El Kobra	. 9,678	530 336	194 9,148	15 9	39 21 1	22 42	112 29	79 21	27 5 6	3 2	33 20	3 108 11	104 2	10 196	_ _ .	95 2	58 323	7	8 18	1.160 7	77 327	7 383	116	318 15	2 106	163 3	-   -	_   _   .	_ 12.23	3 5.452	570	317 5.894	1,541	374 60	0 38	22 32	21 6	1 -	30	29 —	1-1-1	- -	22	32 2,489	- 17	-   -	-   -	/ -  <b>-</b>	-   -	_ 23
Zagazig	12,540	410 327	83 12,130	1 -	35 19 1	31 35	87 28	42 11	15 4 1		5 11 100	6 100 6	100	120		11 660 1	04 106	_ 20	4 98	1.625 1 1	36 330	459	161 1.7	577 63	8 408	931 8	272	_   _   .	_ 5.14	0 3.588	82	110 1,360	998	468 655	5 246 4	09 409	145 83	18 -	409	228.3837	- 742	128 492	135 1	45 5,784	-   /	70 -	-   -	1-1-1	-   -	_ 47
Damietta	11,772	644 339	305 11,128	25 22	69 40 1	73 71	90 41	45 23	21 6 15	3 1	2 18 122	2 175 11	306 6	91 681		41 400 1	100	70 00	20	1.070	27 000	1 205	576	818 13	101	451 28	_   _	_   _   .	_ 3,03	5 2,639	303	93 —	1.465	210 528	8 210 3	18 379	92 13	44 —	386	98 144	11 4240	462 685	81 2	39 3,960	-   -	-	-  -	- -	_   _	93 80
Port Said	. 6,366	544 299	245 5,813	37 23	50 29 1	20 56	75 42	59 12	25 — 15	1 3	9 46 204	4 25 32	198 5	54 511	→   8	41 462 1	09 129	12 20	98	1,972 76	299	1,200	64°	01	7	80 2		_   _   .	_ 3.059	2 1.502	151	123 1.276	958	296 55	5 26	29 29	21 4	1 2	21	31 115	_ 264	1-1-1	20	4 1,100	1 - 1-	-   -	232 —	- -	_   _	91 66
Sherbin	7.487	349 214	135 7,138	12 9	27 18	67 31	84 28 3	30 20	8 5 7	3 1	5 10 48	S 145 6	125 19	90 75	- - -	- 28	59 84	21 3	18	552 43	214	122	0.5		100	50 12	9		8.66	0 4 216		4 3.11	214	115 78	32	16 45	24 4	5 3	45	25 201	_ 262	1-1-1	€0	32 1,850		-   -		/_  _	1 -	25 45
Zifta	5.965	293 163	130 5.672	26 23	33 13 6	36	42 22 1	15 6	9 6 1		4 11 57	7 76 11	134 16	80	-   -   -	-   80   8	59 113	1 118	33	606 43	8 163	168	16 2	10 147	1100	900 19			1.00	740	212	2,011	479	200 79	95	(7 51	8 6	7 19	33.	13 1864	_ 1391	5 -	67	41 1,774	1 - 1-	-   -		1_ _		29
Suez	2 999	226 168	58 3.006	12 1	18 11 6	35 27	37 14 1	18 3 1	10 6 2	2 18	8 16 95	12 10	75 13	72	- - :	31 41 10	8 146 .	→   156	2	897 42	7 168	470	144 4:	20 155	113	202 3	_ -	_ - -	1,004	1 500	177	74 9 890	9.050	700 72	40	07 56		9 1	45	27 438	251		32	50 1.303	( _   -	_	_  _	/_   _		24 82
	0,202	200 060	35 5 791		13 5 6	30 49	76 35 3	34 15	5 7 3	_ 13	3 28 33	108 5	116 11	2 95 -	-     -	- 81 8	3 89	26 62	54	798 47	5 268	323	157 21	11 62	62	147 2	_   _   .	-   -   -	4,813	1,793	1//	14 2,020	2,376	192 15	40	30			95	E 61	194		20	21 1 056						22
Pari C	0,085	303 200	30 0,721		6 5 2	3 22	28 20 1	14 6	5	_ 5	10 25	37 4	52 4	4 46 -	-     -	- 46 2	9 22	8 4	I	1,100 836	6 120	264	90	13 13	13	_   -   7	- - .	-   -   -	- 3,213	3 1,593	116	141 1.663	276	70 40	6	34 32	3 3	2 %	25	00 000	- 124		10 1	1 1 017	7   7					_ 33
Beni Suef	3,607	133 120	13 3,474		10 0 4	2 28	62 49 3	3 16 2	1 6 7	8 7	15 56	86 8	126 15	6 79 -	-   -   -	. 72 8	8 112	1 180	-	680 381	1 92	299	82 61	17 446	194	155 16 -	-     -	-     -	9 • 888	3,536	1,660	359 4,333	1,459	302 67	25	2 45	12 5	5 -	26	36 270	- 892		13 4	1,017	7		_   _		_   _	_ 00
Minja o a.	6,075	298 92 2	06 8,777	- 3		10	22 22 15	8 6	5 2	4 8	5 19	37 3	74 7	55 -	-   -   -	55 3	0 37 -	- 67	13	227 168	46	59	17 17	7 143	103	18 16 -	-   -   -	-   -   -	- 1,053	128	94	14 817	118	31 17	7	0 11	5 —	1 3	12	1 58	_ 112	-   45	9 ;	24 154	227 —	-	-   -		-   -	111 1
Mellawi	2,961	146 46 1	00 2,815	6 4	8 6 20	10	FO 44 99	2 23 17	9 7	3 6	20 34	175 15	113 235	156 -	.   _   _	156 18	3 157	10 241	93 1	,152 588	200	564	222 64	416	227 5	203 26 -	-   -   -	-     -	- 7.548	3,427	810	726 2,585	1,598	636 150	44 10	6 113	23 9	5 13	101	31 2959	- 1287	- -	108 10	3,305		-   -	-   -		-   -	6 49
Assint	7,072	363 200 1	63 6.709	13 7 2	6 19 72	42	20 20	0 5 3	3 1	3 4	16 32	38 13	73 154	79 -	.   _   _	79 4	2	5 106	1	493 293	93	200	109 29	2 192	108	85 15	3	-   -   -	- 7,671	1,914	804	51 4,922	891	389 76	51 5	5 53	12 7	4 3	41	28 294	4 939	37 39	5	1,199	306 -	-	-   -	- -	-   -	7 32
Southag	7,708	176 93 4	7,420	9 7 1	5 19 36	16	25 10 20		4 3	2 3	21 31	64 6	69 120	13 -	- -	- 6	5 -	- 10	2	227 209	118	18	4 15	7 113	69	34 10 -	-   -	-   -   -	- 3,606	1,183	38	21 2,364	996	376 —	- -			1						2 617		-   -	-  -		-   -	3 40
Rena	3,942 1	94 118 3	76 2,748	4 4 1	7 7 44	20 3	36 22 21	4	2 3		12 30	32 6	86 171	74 _	_ _	74 3	15 _	33	_	194 132	97	62	25 3	1 13	12	18		-     -	1,853	366	87	30 1,370	793	313 72	32	0 35	15 17	5 -	39	28 —			14	30 344		-   -				_ 22
724FG *** *** ***	2,144	74 97 7	77 1,970 -	_   _   2	7 9 41	16 3	32 10 20											_[]	-	_								-[]-	<del> </del>	-						-  -	_ _ -													
						10% ( 100	20 894 1019	355 411	150 145	49 699	899 3124 2	2136 445 4	101 7,078	4,308 —	9 83	2130 3419	3869 1	94 2,991	891 26,	,172 18,125	6,571	8,047 2,	920 12,575	8,972	5.562 349	4. 409	25 272 -	-1-1-	- 164507	82,319 3	3,679 7,6	670 60,839	34,731 8,6	663 2,072	848 125	4 1,307	124 181 1	00 76	1,274	622 2	15	636 1268	855 90	45,890	328 7	10 -	232 45	5	1 -	557 1588
TOTAL	188020	6571 483	3 176386 4	10 352 111	723 3653	1274 180	894 1012	300 32					1											-			-1													1 - 6										



(New T.B. Cases in the Dispensary)	or (New Patients admitted to Sanatorium)	New Contacts (Disp.)	Sputum Examination	X. Ray Examination	Exam of (Sanat)	Old Cases (Disp.)	Visits Disp.	Discharged Patients	Treatment	Operations
T.B. Cases S S Age Groups	Professions (Disp.) Classe		m l	_     -	Old Patients	ation	£3 £3	Ability to Work	ions itment tment	Intrapleural Pneumothorax Pneum
	Post of the state	2nd 3rd Paying 3rd Gratis Children Adults T.B. Contact Cases under OF (D.Sp.) Hæmopt,	Sputum of Sputum of New Cases Old Cases  No. Pos. No. Pos	New Case	os. Under Observ. No. No. Pag.	Total T.B. Casee Under Observ Contacts Other Chest Di	Nurses Visi M.O. Visi Total	Sputum Sputum Discha Improved Stationar, Worse Complete Partial Unable	Tuberculiu  Gold  Other Inject  Exercise Treat  General Treat  Aspiration	Refills  Internal Phremic Oper- Induction  Refills  Other Opera Thoracopia Thoracoton Pleural Dra Lung Ponchoscop Bronchoscop Bronchoscop Bronchoscop Refills Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton Thoracoton
Damanhour Shubrakhit 846 13 13 - 833 - 1 1 2 3 1 2 3 2 1			21 21 13   -	13 13 13 -	_ _ _ _ _	_ 842 118 — 8 716	6 128 112 -			
Alexandria Rosetta 982 13 11 2 969 5 1 6 1		_ _ _ _			_ _ _ _ _	_   134   134   —   —   —	109 43 —	_ _ - - - - -		
Tanta Kafr el Zayat 1,056 20 17 3 1036 2 _ 3 _ 7 3 4			37 34 17 3 -	. 14 14 11 -	_ _ _ _ _	- 761 331 430	0 91			
Mansoura Simbellawein 1,029 2 1 1 1027 1 1 1				.   _   _   _   .	_ _ _ _ _	_   128   9   1   —   118	8 196 143 —	_ _ _ _ _		1 5
Shebin el Kom ( Menouf 1,015   14   12   2   1001     -   1   -   4   1   9   5   4   3   1   -   1	$-\begin{vmatrix} 1 \\ -\end{vmatrix} - \begin{vmatrix} - \\ -\end{vmatrix} - \begin{vmatrix} 1 \\ -\end{vmatrix} - \begin{vmatrix} 1 \\ -\end{vmatrix} - \begin{vmatrix} 1 \\ -\end{vmatrix} - \begin{vmatrix} 5 \\ 11 \end{vmatrix} \begin{vmatrix} 2 \\ 5 \end{vmatrix} - \begin{vmatrix} 6 \\ 9 \end{vmatrix} \begin{vmatrix} 6 \\ 5 \end{vmatrix} \begin{vmatrix} 1 \\ 3 \end{vmatrix} - \begin{vmatrix} 1 \\ -\end{vmatrix} - \begin{vmatrix} 1 \\ 5 \end{vmatrix} - \begin{vmatrix} $		15 15 12 — — — — — — — — — — — — — — — — — —	- 1 1 1 1 - 1 - 3 3 3 -	= = = = = =	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 69 69 — 9 65 56 —	= = = = = = =		
Mehalla el Kobra Kafr El Sheikh 1,958 68 51 17 1890 2 3 15 6 19 2 16 1	4 4 9 17 25 - 13		74 64 51 10	5	_ _ _ -	_ 1110 736 57 58 259	69 220 220 —	- -  - - -		_   138
Damietta Faraskour 2,359 — — — 2359 — — — — — — — — — — — — — —			_   _   _   _   _	_   _   _   .	_   _   _   _   _   _	_   _   _   _   _	220 147 —	- - - - - -		
Port-Said Ismailia 1,008 62 32 30 946 — 2 9 7 16 7 12 4 1 2			53 53 32	-   -   -   -   .	_   _   _   _   _   _   _		15			
Sherbin Dikernis 2,999 33 16 17 2966 — 1 5 4 8 3 6 2 1		_   _   _   3   5   1   _   _	48 40 16 8	6 1	1	_ 628 326 33 32 23	59 64 —		15	
Fayoum Etsa 563 14 14 — 549 — — — 6 4 1 2 1		_ _ _ _	14 14 14 — —	_   _   _   .	_ _ _ _ _	_   278   25   _   _   25	392 392 —	. _ _ _ _ _		
Minia Samallout 959 13 3 10 946 — 1 1 1 — 1 1 2 3 1 —	2 - 1 2 5 - 6		_   _   _   _   _	-   -   -   -	_ _ _ -	<b>- 1252</b> 185 63 38 96	66 -   -   -			
Souhag { Akhmim 1,190 4 2 2 1184 2 2 3 5 4 1 1 1 1 - 1			$\begin{bmatrix} 3 & 3 & 2 & - \\ 22 & 22 & 12 & - \end{bmatrix}$	$\begin{bmatrix} 2 & 2 & 2 \\ 12 & 12 & 8 \end{bmatrix}$	= = = = = =	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
Qena { Luxor 763 67 48 19 696 1 — 6 2 21 6 14 9 3 2 Nag Hamadi 734 3 2 1 731 — 1 — 1 — 1 — 1 — 1 —	$ \begin{bmatrix} 2 & 1 & - & - & - & 6 & 13 & 27 & 3 & 18 & 2 & 6 & - & - \\ - & - & - & - & - & - & - & 2 & 2 & 1 & 2 & 2 & - \end{bmatrix} $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 51 42 23 - 2 -		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	77 56 66 —			
Aswan Kom Ombo 178 6 2 4 172 1 - 2 2 1		- - - - - - -		-   -   -	1 1	-   171   -   -   17	71 —   —   —	.   -   -   -   -   -   -   -   -	- - - - -	-1
						X		CHEST DISEASES SANATO	RIA AND HOSPITALS	
				1111					302	
Almaza Sanat, orium 1,853   1853   1018   835 -   -   -   327 -   860 -   412 -   173 -	57 - 24 - 124 305 843 308 190 83 11	234 348 1260 565 1	10,166 1,852 1,013 8,314 3,6	640 3399 835 835 2	2564 —   —   859   195   570   2	243	189		9455 220 573 472	904 11,919 535 401 3 — 50 101 4 27 52 — —
Abbassia Hospital 1,158 1107 786 321 51 91 76 14 316 — 392 — 191 — 57	- 20 - 1 - 4 2 - 23 1129 1	72 106 980 — — — 297	4,121 1,158 7.6 2,963 1.3	172 1828 746 703	988 94 — 465 586 586 5	586	116	<b>(2)</b> 692 470 702 287 69 104 38 419 601	6 0 439 635 253	285 6,532 249 245 — 4 15 3 6 37 — —
Gizs Sanatorium 213 213 110 103 -   -   29 -   85   -   58 -   29 -	11 - 1 - 24 32 96 43 4 14	-   -   213   -   -   -   137	1,110 150 11) 960	437 486 129 129	537 —	75	-   -   -   24		2380 — 3011 40 95 134	153 2,844
Alexandr a Sanatorium 318 318 250 68 — 12 4 39 32 90 33 49 20 25 3	9 - 2 - 26 31 119 24 28 90	_ 10 308   _   _ 189	1,840 312 2.0 1,528 6	651 372 47 47	325	- - - - -	32	4     201     123     125     82     93     24     2     124     174	1662 974 2241 34 75 73	88 1,435 — — — — — — — — — — —
Mahalla el Kobra Sanatorium 473 473 319 154 — 8 S 46 37 149 74 69 32 21 9	11 5 1 3 27 27 132 81 29 177 — — —	23 28 422 — — — 100	2,794 473 31) 2,321 8	893 884 277 272	571 36 3 287 340 371 2	287 — — — — —	44	<b>9</b> 202 247 313 60 62 14 17 206 212	<b>— —</b> 780 462 450 48	205 3,569 63 29 5
TOTAL 4,015 3964 2483 1481 51 111 88 455 385 1184 499 588 243 248 69	88 25 28 4 201 399 1192 456 274 1493 — — 11	329 492 3183 — — — — 1288 2	20,031 3,945 2,4 16,086 6,2	793 6969 2,034 1,988 4	3 1685 1189 1607 11	191 — — — —	407:	2 2242 1830 2496 886 353 337 57 2105 1573	E 980 E 1195 1828 980	1635 26,299 847 675 3 - 54 121 7 33 89

	Almaza	Abbassia	Giza	Alexandria	Mehalla	1							in-Patient 8	Sections in I	Dispensaries	3						
Statment	Sanat.	Hosp.	Sanat.	Sanat.	er Popta	Damanhour	Tanta	Mansoura	Shebin el-Kom	Zagazig	Damietta	Port-Said	Sherbin	Zifta	Suez	Fayoum	Beni Suef	Minia	Mellawi	Assiut	Souhag	Aswan
				1				1								I			1			
No. of Pts. on 1st. Jan. 1950	832	464	169	112	144	_	14	21	_	16	115	137	27	21	46	24	20	11	_	61	20	19
No. of Pts. admitted during the year	1853	1158	213	318	473	49	66	59	18	95	681	511	28	80	72	81	46	72	55	156	79	74
No. of Pts. discharged during the year	1894	1162	243	324	460	I	64	56	6	60	655	520	55	78	72	75	40	67	17	150	76	72
No. of patients on December 31, 1950	791	460	139	106	157	48	16	24	12	51	141	120	7	23	46	36	26	16	38	67	23	l   21
Average duration of stay in days	13,6	173	167	131	130	3	96	160	20	95	65	99	108	95	210	131	158	95	30	139	112	87



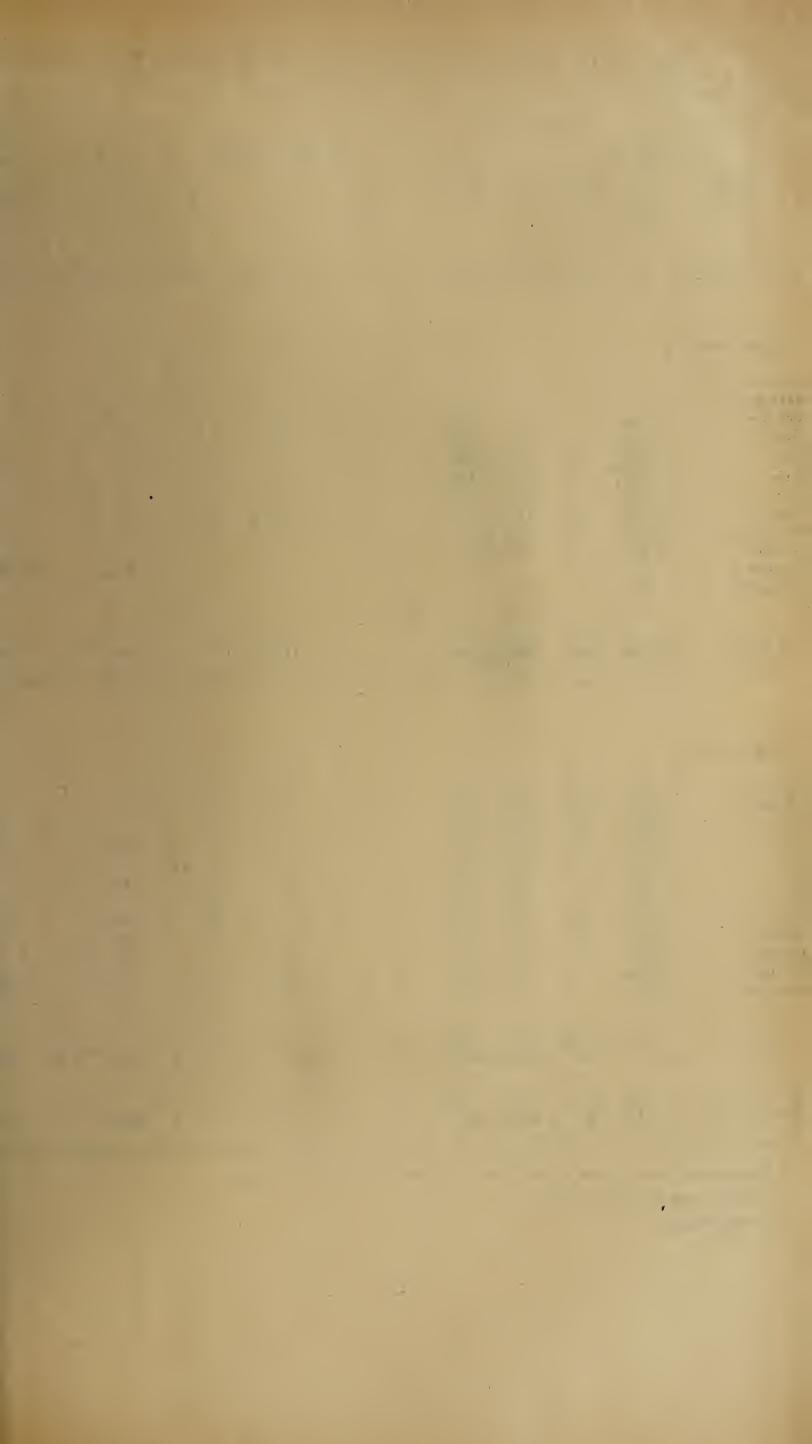


TABLE No. 103.—Mobile Mass X Ray Survey Unit Attached to Khalifa Dispensary Sin

	3.	Res	ULT OF	Ехам.									A G
MONTH	o. Exam.	D	C	3.7			Less tha	n 5 yea	rs			Fr	om 5 —
MONAI	Total No.	Pos.	Susp.	Neg.		М.			F.			М.	
	E	+	ś	<u> </u>	+	?		+			+	š	_
77- 1040					,								
YEAR 1949													
January February March *	520	- 7		$\begin{bmatrix} - \\ 513 \end{bmatrix}$			-			33			78
April May	490 1,968	14 13	 62	482		Direction of the Control of the Cont	4		_		_		38
Ji ne July	$\begin{bmatrix} 524 \\ 2,518 \end{bmatrix}$	$\frac{2}{11}$	27 60	495						-	- 1	12	$2 \frac{1}{2}$
August September †	$\begin{bmatrix} 5,913 \\ 2,574 \end{bmatrix}$	21 13	117 42	$\begin{bmatrix} 5,775 \\ 2,519 \end{bmatrix}$				_		_ 1	_ 3	13 —	602 40
October November	4,608	26		1		-				-App	aratus	out of	$[\mathrm{order}]$
December	1,009	2	57	950									
Тота́ь	20,130	109	456	19,565	<del>.</del>		£1			45	4	30	1,336
YEAR 1950													
January February	651 3,291	3 16	$\begin{array}{c} 23 \\ 144 \end{array}$				_	_	_		_ '	_	7
March	7,899 2,879	40 12	219 113	7,640	_	$\frac{2}{3}$	$\begin{array}{c} \times & 26 \\ 144 \end{array}$	_	$\begin{vmatrix} & - \\ & 4 \end{vmatrix}$		$-\frac{1}{2}$	4 17	153 341
May June	5,415 2,188	22 11	138 43				14 48	_	_ 2	43	- $2$	_	96 314
July Argust	1,161 7,774	5 18	52 128	$\begin{bmatrix} 1,104 \\ 7,628 \end{bmatrix}$	_		$\begin{array}{c c} 9 \\ 452 \end{array}$		1	4 266		$\frac{2}{13}$	162 $1,173$
September October	9,836	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	57 27	$   \begin{array}{c c}     9,777 \\     3,701 \\     \hline     0,701 \\    0,701 \\  $	_	<u> </u>	534			$\begin{array}{c} 300 \\ 32 \\ 67 \end{array}$	_	7	931 677
November December	$\begin{bmatrix} 3,881 \\ 2,381 \end{bmatrix}$		31 <b>3</b> 6	$\begin{bmatrix} 3,850 \\ 2,345 \end{bmatrix}$			49 20		_	67 15		13 10	<b>6</b> 06 <b>54</b> 5
TOTAL	51,687	132	1,011	49,944	_	5	1,319		7	918	4	73	5,005
GRAND TOTAL	71,217	241	1,467	69,509		5	1,330		7	963	8	103	6,341

<sup>\*</sup> The apparatus began its work in 1949 at the Agricultural and Industrial Exhibition.

<sup>† 3</sup> Positive cases discovered by Screen

<sup>‡</sup> Sindibis Village.

STARTED WORK IN MARCH 1949.—THEN ATTACHED TO MUBTADYAN DISPENSARY FROM 28-9-1950

ROU	P 8													
j year	's	Through the second	1	ŀ	From 15 —	30 years	ı			F	From 30 —	50 year	8	
	F.			М.			F.			М.			F.	
+	į		+	i	_	+	?		+	ś		+	Ś	
	4 4 4 8	197 52 4 I.	7 4 10 1 3 14 11 24 2	  45 13 33 70 27 88 42	87 63 1,560 252 1,385 3,806 1,749 4,369 800		1			- - 10 1 17 22 14 3 - - 80	36 436 980 621 111 142			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		47 188 78 508 458 414 608 1,078	3 7 10 3 12 1 2 6 1 — 45	12 72 66 12 39 13 16 39 16 — 2 2	503 1,527 2,721 487 2,380 541 288 1,912 2,769 867 1,215 225	- - 1 1 2 - 3 - 1 - - 8	- - 21 8 4 6 13 9 3 - 1	961 437 381 89	9 26 4 8 1 2 4 1 1	8 56 113 8 77 17 16 34 15 2 1	108 1,396 4,031 279 2,311 580 279 1,421 2,377 584 463 267		- - 14 3 1 4 14 7 3 3 -	- 1 315 57 130 51 519 643 316 215 43 - 2,290
4	81	4,170	121	602	29,506	12	66	4,024	75	429	16,708	7	49	2,436

TABLE No. 103.—Mobile Mass X Ray Survey Unit Attached to Khalifa Dispensary Sin

											<del>,</del>	
					,							PROFE
MONTH		Fr	om 50 year	s and ab	00 <b>y</b> e			<b>7</b> 01			Q11	
MONTE		M.			F.			Employe	es		Student	;s
	+	?		+	ş		+	?	-	+	ş	
					1			•				
YEAR 1949												
January			-				_				_	
February March	-		48			$-26 \\ 35$	— 1 5	-	— 66 57			11
April May June	-	4	$\begin{array}{c} 66 \\ 22 \\ 1 \end{array}$	_		JU	3	13 3	172 63	10	$\begin{array}{c c} -\\ 49\\ 24 \end{array}$	
July August	. 1	4 7	41 58	_		— 1		_ 1			=	
September October	1	_ 1	46		_		26	91			—   —	d - 1.
November December	1	2	8		non-and		_	27		pparat.		f order— 44
Total	Ž	19	296			62	36	135	5,342	16	103	2,79
					•							
YEAR 1950		0	0				9	0.0	× = 1			
February March	.   - ,	$\begin{vmatrix} 3\\16\\34 \end{vmatrix}$	208			_	$\begin{array}{c c} 3\\16\\37 \end{array}$	144	3,131	L	- 6	
April May	. 1	9 6	97		5	3		$\begin{vmatrix} 1 & 3 \end{vmatrix}$	52 250		1 2	2
June	7	7	102		2	32 24	4		210	) —	- 1	39
August September October		$\begin{array}{ c c }\hline 7\\1\\2\\\end{array}$	550		1	205 254 149		16 1 1	566	5 -	3	1,09
November December	.   -		179 46			67	<u> </u>	1 1	116	3 —	24	2,43
			Fr.		_							
Тотац	. 8	93	2,810	4	13	863	62	419	13,073	2	90	9,11
GRAND TOTAL	10	112	3,106	4	13	925	98	554	18,41	18	193	11,90
	1											

STARTED WORK IN MARCH 1949.—THEN ATTACHED TO MUBTADAYAN DISPENSARY FROM 28-9-1950. (Contd.)

0	N	8

7	Vorkmen		F	armers	,	Food	d Vendor	28	Othe	er vendo	rs	No	Occupati	o <b>n</b>
+	3		+	š	_	+	š		+	ś		+	ś	
- - - - 11 21 13 one ex-	59 117 42 minad.	110 134 - 2,447 5,771 2,519 1	2 2 2		- 93 76 - - - - 169			36 39 - - - - 8	2		- 37 46 - - - - 83	3		- 60 53 - 2 - 2
- - 3 - 11 1 5 2 1	27 - 110 8 12 31 23 4 1 2	8 - 1,303 33 4,355 458 332 1,712 4,152 448 392 156		- - - - 88 - 6 2 19 7 1 2	2,109 - 410 134 1,066 1,188 234 206 61		- - - - 1 - 5 3 1			- - 1 - 6 3	26 	11 7 - 8 - 2 -	- - 22 23 4 12 45 20 10 3 -	500 569 215 201 1,488 1,974 1,186 530 7
24	218 ——	13,349	13	125	5,408		10	1,273	2	10	1,059	29	139	6,670
74	436	24,331	15		5,577		10	1,356	4	10	1,142	32	139	6,785

TABLE No. 103.—Mobile Mass X Ray Survey Unit Attached to Khalifa Dispensary Sin

	R	A C E		RELIGE	o x
MONTH	White	Dark	Mos!em	Christian	Jew Others
-	Total +	Total +	+ ? -	+   ?   -	+   ?   -   +   ?   -
January February March April May June July August September October November December		$egin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c cccc} 1 & - & 17 \\ - & - & - \\ - & 2 & 249 \\ \hline 3 & 10 & 334 \\ - & 5 & 319 \\ - & 3 & 140 \end{array} $	
TOTAL	19,507 107	623 2	105 429 18,390	4 26 1,133	_ 1 42
YEAR 1950  January February March April May June July August September October November December	6: 6 3,2:2 16 7,73 39 ,879 12 5,409 22 2,188 11 1,161 5,672 18 9,836 2 3,731 3,881 2,381 - 2,381 -	25 — 69 — 167 — — — — — — — — — — — — — — — — — — —	3 23 601 16 136 3,014 40 205 7,171 12 111 2,694 19 123 4,805 11 42 2,111 5 52 1,090 18 124 7,610 1 57 9,762 3 27 3,684 — 31 3,884 — 34 2,319 128 965 48,705	24 - 8 117 - 14 466 - 2 60 3 15 449 - 1 23 14 - 4 18 1 - 15 2 26 - 2 60 - 4 18	
GRAND TOTAL	70,225 238	9(2 3	233 1,394,67,095	8 72 2,368 -	_   46

STARTED WORK IN MARCH 1949.—THEN ATTACHED TO MUBTADAYAN DISPENSARY FROM 28-9-1950. (Contd.)

1			LARGE	FILMS		pro		SPU	тим Ех	А М,	natoria
o, of	Positive	Bronchice-	Calci <b>fi</b> ca-	Fibrosis	Effusion	Under Observation	Negative	Positive	Negative	Not Examined	Transferred to Sanatoria
	+				1	- Contraction of the Contraction		+			Transf
						,	,				
	_			<u> </u>							
- 21 9				-			15	-	$-rac{16}{4}$		
26 84 36 74	$egin{array}{ccc} 7 & 56 & 19 & 5.4 & 5.$		— — —				$ \begin{array}{c} 19 \\ 28 \\ 17 \\ 20 \end{array} $	$egin{array}{c} 2 \\ 7 \\ 2 \\ 8 \end{array}$	$-64 \\ 38 \\ 46$	7	$ \begin{array}{c c} 2 \\ 10 \\ 4 \\ 16 \end{array} $
e exar	nined.						6				
268	159		_	_			109	23	219	56	34
10 70	17 54		<u> </u>	1 —		46	5 . 7		22 117 156	31	2 5 9 14
70 130 52 84 7	27	7 —	-  -  -			70 22 27	6 3 7 33 5 —	$-\frac{1}{1}$	22 1 1	96	- 14 1 `
							-			——————————————————————————————————————	
_	_			_	-			_			
		_		_			_		_	_	_
		-			_		_			_	

# Chapter XI.-Venereal and Skin Diseases

According to tables Nos. 104 and 111., a total of 270,188 persons attended the Venereal and Skin Diseases Units during 1950 suffering from one or another of these diseases, as against 260,996 patients during the pervious year, or a slight increase over those of that year. Since recognising the good and effective treatment given to patients at these units, the public no longer hesitate in seeking treatment at these units which exist now in all parts of the country.

### 1. Gonorrhoea:

Tables Nos. 107 and 113 give the number of acute gonorrhoea patients during the year as 3472 as compared with 5,487 during 1949. The significant decrease in the number of patients this year is attributed to the interest taken by patients in treatment and the use of penicillin and sulpha in treatment. Gonorrhoea infections are thus cured within one day.

## 2. Syphilis:

Tables Nos.106 and 112 shows that 1,815 syphilis cases attended the V.D. units this year as against 3013 cases during 1949. The sharp fall in the number of attendances this year indicates that the public now take better protective measures and, in the event of contracting the disease, rush to these units for treatment. Moreover, Procain penicillin G. in oil with 2% aluminium monostearate have been used with great success in the treatment of syphilis.

## 3. Other Venereal Diseases:

The number of patients suffering from other venereal diseases was, according to tables Nos. 104 and 111, 3770 as against 5,954 in 1949. The same causes responsible for the decrease in gonorrhoea and syphilis patients equally apply to other venereal diseases patients.

#### Technical Works:

All means of propaganda are employed to draw the attention of the people to the serious consequences of venercal diseases and the deformation they produce on the body.

All V.D. units are now supplied with procain penicillin G with 2% aluminium monostearate for the treatment of acute gonorrhoea.

This drug has abortive effect in curing the disease as demonstrated by the apparent fall in the number of patients compared with their corresponding number in the previous year.

The same drug is also supplied to the units for the treatment of syphilis. It is anticipated that it will have the same effect as in gonorrhoea.

Great efforts have been made in the tratment of tinea, a wide spread disease affecting in particular pupils of elementary and primary schools. X. Ray apparatuses have been provided in 26 V.D. units for the purpose. Treatment was commenced in some of the units in September of this year.

Benzyl benzoite is now supplied to V.D. units as well as 100 Rural Health Centres for the treatment of scabies, another wide spread disease.

Two mobile units have been provided in Minia and Sharkia Provinces. Hod El Marsoud and Gabbary hospitals which were formerly assigned for the detention and treatment of public women, have been converted in 1949 into V.D. hospitals with in-patient departments where V.D. and other skin diseases are treated by modern methods.

A special accommodation, with a private entrance, has been provided in each of the two hospitals for the accommodation and treatment of women suffering from V.D. and who are arrested by the police.

Every endeavour is made to increase the number of V.D. units. There are at present 39 units besides the V.D. hospitals at Hod El Marsoud and Gabbari. There is also a prophylactic centre near Ezbekieh Gardens, Cairo, under the supervision of a medical officer for the protection of persons exposed to V.D. infection.

TABLE NO 104.—NEW PATIENTS AND VISITS TO THE SKIN AND VENEREAL DISEASES HOSPITALS DURING 1950.

Table No. 105— Expenditures During 1950.

	Salar	ies	Equip	oments	8	uments ind dicine	Di	et		indry enses	Total Expenditure	
	L.E.	L.E. Mms		L.E. Mms		Mms	L.E. Mms		L.E. Mms		L.E,	Mms
Cairo Hosp	<b>5,5</b> 50	304	227	810	601	600	921	056	218	538	7,519	308
Alexandria Hosp	2,132	576	211	800	310		749	3 <b>5</b> 9	177	171	3,580	906
· Total	7,682 880		439	610	911	600	1,670	415	395	709	11,100	214

Table No. 106—New Cases of Syphilis in Venereal Diseases Hospitals During 1950.

			Early	Cases						Late	Cases				TOTAL		
	Prin	nary	Seco	ond.	To	TAL	Te	rt.	La	tent	Ner	yous	Не	erd.	To	TAL	
	М.	F.	M.	F.	м.	F.	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	
Cairo Hosp	21	20	49	42	70	62	11	3	69	171	15		21	32	186	268	
Alexandria Hosp.	11	5	15	16	26	21	19	7	77	313	25	19	5	14	152	374	
Total	32	25	64	<b>5</b> 8	96	83	30	10	146	434	40	19	26	46	338	642	

Table No. 107—New Cases of Gonorrhoea During 1950.

	Acı	ite	Chro	nic	Total .		
	М.	F.	M.	F.	М.	F.	
Cairo H sp	54	56	176	629	230	685	
Alex. Hosp	25	1	_	66	25	67	
Tetal	79	57	176	695	255	752	

Table No. 108—Infected Contacts

	Sy	ph	Gon.			
	M.	F.	M.	F		
			-			
Cairo Hosp	<b>5</b> 0	76	35	50		
Alex. Hosp						
Total	50	76	35	50		

TABLE No. 109—Cases of Venereal Diseases Cured During 1950.

				Outpa	itients		Inpatients					
			Syl	oh.	G	on.	Syl	»հ.	Gon			
Cairo Hosp. Alex. Hosp.	•••	•••	42	66	107 24	190	20 73	21 136	30	66		
Тотаі		•••	42	66	131	190	93	157	30	103		

Table No. 110—Cases of Skin Diseases Cured During 1950.

	Sea	bies	Ringworms			
	М.	F	м.	F.		
Cairo Hosp	194	334	38	29		
Alexandria Hosp	168	203	63	49		
TOTAL	362	537	101	78		

TABLE No. III.—NEW CASES AND VISITS

Locality of Clinic  Sayeda Zeinab	95 136 193	<b>F.</b> 97	Gonorri M.	F.	Skin D	F.		her Dis. F.	То	)TAL
Chuhro	95 136	97		F.	м.	F.	м.	F.	M	
Chuhro	136								A) A. o	F.
Chuhro	136									
Shuhra		LAAL	247	161	2,707	3,434	22	25	3,071	3,71
	193	130	323	84	3,849	18,351	65	193	4,373	18,75
Gamalia		123	503	305	987	1,923	113		1,796	2,67
Abbassia	8	63	127	56	2,782		60	30	3,055	3,78
Old Cairo	14	19	37	37	917	2,110		95	968	2,26
Khalifa	42	16	47	53	1,591	8,209	_	_	1,680	8,27
Heliopolis	38	13	160	14	1,225	<b>3</b> ,108	-	_	1,423	3,13
Port-Said	37	64	61	27	2,025	2,832	34		2,157	3,01
Port Said Health Centre	47	82	21	19	1,933	2,846	2	33	2,003	2,98
Ismailia	$\begin{bmatrix} 67 \\ 72 \end{bmatrix}$	98 72	34	15	1,550	1,864	2	60	1,453	2,03
Domistha		258	164	89	3,071	4,428	49	585	3,356	5,17
Ronha	$egin{array}{c} 144 \ 27 \ \end{array}$	35:	5 57	6	3,178	8,105	6	6	3,333	8,37.
Shahin-al Kom	66	48	50	44 30	2,282	2,423	34	58	2,400	2,56
Manauf	31	22	3	30	4,775	8,237			4,891	8,31
Tonto	330	393	114	9	2,092	4,923	<b>2</b> 9		2,128	4,94
Mahalla al Kahra	74	94	33	22	3,771	4,324	21	5   12	4,224	4,73
Kafr El Zayat	104	142	31	23	2,061 $2,585$	3,679	21	12	2,189	3,80
Zagazig	82	85	53	18	3,350	2,853	4	2	2,720	3,018
Facus	55	120	9	8	1,534	3,210 1,893			3,489	3,31
Mansoura	133	232	47	6	2,191	2,997	79	722	1,598 2,450	2,02
Mit-Ghamr	78	158	2	ĭ	3,571	4,329	8	8	3,659	3,95
Damanhour	84	108	118	82	3,865	9,080	9	_	4,076	4,490 9,250
Kafr-el-Dawar	21	28	6	9	1.066	1,785			1,093	1,82
Giza	63	63	73	9	814	3,307	10	7	960	3,40
Fayoum	122	245	39	26	2,035	2,518			2,197	2,78
Sennuris	34	88	19	13	1,331	3,101	2	5	1,386	3,26
Beni-Suef	63	84	89	7	3,256	3,400	6	_	3,414	3,49
Minia	135	204	59	1	2,011	2,394		1	2,205	2,60
Samalut	69	86	10	13	619	840	_	_	598	94
Assiut	195	406	95		2,009	3,971	2	-	2,301	4,37
Deirout	62	99	$\frac{2}{2}$		2,383	3,095	16	21	2,463	3,21
Gerga	111	128	56	20	4,963	9,860			5,130	10,00
Tahta Souhag	224	350	1	_	1,070	3,427	-		1,295	3,77
Oena	155 35	198	11	_	1,326	1,309		-	1,492	1,50
Nag Hammadi	39 70	46	10	6	1,981	3,132		-	2,026	3,18
Luvor	95	193 94	25 29	2	975	1,218	1		1,071	1,41
Aswan	84	101	67	4	726	1,532	1	1	851	1,63
nowall		101	07	11	808	1,518	23	11	982	1,64
TOTAL	3,573	4,908	2,837	1,215	84,965	155,198	580	2289	91,956	163,60

HE SKIN AND VENEREAL DISEASES CLINICS DURING 1950.

			NUMBER OF	VISITS					
Sý	philis	Gono	rthoea	Skin	Diseases	Othe	er Dis.	T	OTAL
M.	F.	М.	F.	М.	F.	M.	F.	М.	F.
3,838 3,708 7,959 2,106 1,071 1,222 694 1.617 1,026 1,247 2,196 2,525 568 2,078 1,107 3,766 2,601 3,541 1,366 1,36	7,135 4,768 9,777 2,753 1,560 2,230 257 3,789 2,803 2,598 3,614 5,847 768 2,218 1,896 15,018 4,724 4,610 1,889 4,682 5,642 7,141 2,892 1,035 4,415 8,870 3,600 4,423 6,898 3,902 12,726 5,384 5,644 7,047 9,495 5,989 8,668	128 434 1,016 166 128 45 83 188 48 51 659 55 102 235 17 314 100 60 79 9 144 28 89 4 78 36 22 270 185 31 14 1 120 2 11 29 29	445 328 1,226 67 146 26 19 51 423 115 517 73 104 99 24 79 40 34 13 220 10 19 2 26 54 17 2 53 29 58 1	861 1,260 1,543 958 326 1,751 1,121 1,034 798 825 755 724 665 689 1,211 2,324 846 1,201 1,179 275 1,210 2,065 208 293 376 957 1,166 585 283 1,350 1,825 2,119 43 429 459 148	2,649 3,018 2,144 1,323 1,366 10,059 1,667 1,315 1,320 1,429 1,003 1,825 1,188 1,350 1,263 2,011 2,119 1,285 1,113 1,711 487 1,499 3,765 260 811 544 2,239 1,472 825 391 2,174 2,395 2,867 140 406 773 148	3 697 377 7	14 1,314 815 - 36 - 60 12 729 - 45 - 3 - 3 - 553 4 6 - 15	4,830 6,099 10,895 3,237 1,525 3,018 1,898 2,839 1,872 2,123 3,728 3,304 1,355 3,002 2,335 11,416 3,571 5,114 2,654 2,518 3,76	10,243 9,428 13,962 4,643 3,108 12,315 1,943 5,155 4,605 4,154 5,863 7,745 2,105 3,667 4,159 17,056 6,922 5,935 3,039 6,406 6,902 8,654 6,676 1,297 5,252 9,468 5,862 5,897 7,725 4,346 14,900 7,794 8,540 7,187 9,901 6,820 8,817
3.862 893	7,425 5,728	110 171	82 22	676 391	1,104	1		4,648 2,456	8,614 6,624
1,132	199,863	5,286	4,426	36,442	65,832	1400	3,609	147,260	273,730

Table No. 112.—Cases of Syphilis in Venereal Diseases Clinics during 1950

			Acute	Syphil	is					Other	Stage	5.				
Locality of Clinic	Prin	nary	Seco	ndary	To	TAL	T	ert	La	tent	Ner	vous	He	erd.	To	TAL
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Sayeda Zeinab Shubra Gamalia Abbassia Old Cairo Khalifa Heliopolis. Port Said Port-Said Health	31 35 40 16 6 8 15		22 20 77 14 4 5 7	42 13	55 117 30 10 13	22 51 19 6 3 3	8 10 3 — 12 5 6	5 13 2 5 1 - 4 3	54 59 47 3 8 11 16	75 61 36 11 8 5 44	$egin{bmatrix} - \ 1 \ 2 \ - \ 2 \ \end{bmatrix}$		6 4 1 7 - 4	19 3 1 5 -	130 193 85 14 43 38	130 123 6 63 1 19 16 16
Centre  Ismailia Suez Damietta Benha Shebin-el-Kom Menouf Tanta Mehalla-el-Kobra Kafr el Zayat Zagazig Facus. Mansoura Mit-Ghamr Damanhour Kafr El Dawar Giza Fayoum Sennouris Beni-Suef Minia Semalut Assiut Deirout Gerga Tahta Souhag Qena Nag-Hammadi Luxor Aswan	1 12 24 8 3 3 - 14 10 3 16 2 4 3 11 - 16 9 - 26 4 11 - 9 1 10 3 7 40 37	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9 6 23 14 7 10 3 17 18 6 26 22 9 7 25 1 8 11 22 14 16 11 7 3 52 8 17 9 17 9 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7 7 10 15 1 7 1 12 13 33 32 10 10 22 21 11 9 21 9 7 7 5 100 14 13 - 8 29 4	10 18 47 22 10 13 3 31 28 9 42 40 20 15 18 3 61 9 27 12 19 53 41	13 17 4 8 1 17 16 13 36 32 10 16 24 2 12 14 22 10 7 7 6 101 14 24 	1 5 8 8 1 3 10 20 12 1 20 3 21 12 8 4 7 10 1 9 6 2 8 5 — 21 10 6 17 3 7 — — — — — — — — — — — — — — — — —	3 5 11 2 4 11 11 - 13 4 12 3 4 11 2 11 6 1 1 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 39 10 75 15 38 13 201 17 77 10 781 31 28 12 15 74 7 11 79 37 139 45 135 101 7 18 30 19	73 35 172 26 27 17 300 53 123 34 45 181 107 47 22 44 196 52 52 162 58 337 80 8 279 146 21 144 31	17 - 3 - 1	2 12 12 1	5 4	15 17 46 3	67 73 144 23 60 31 330 74 104 82 55 133 78 84 21 63 122 34 63	98 72 258 35 48 22 393 94 142 85 120 232 158 108 28 86 245 88 84 204 86
TOTAL	442	77	567	550	1009	627	302	235	1653	3286	52	26	557	734	3573	4908

TABLE No. 113.—NEW CASES OF GONORRHOEA IN VENEREAL DISEASES DURING 1950.

	Tar	lity (	of (1)	inter				Act	ite	Chronic	Clinics	Tora	IB.
	1.008	illoy (	01 U1	111168				M.	F.	M.	F.	М.	F.
Sayeda Zeins Shubra Gamalia Abbassia Old Cairo	•••	•••	•••	•••	•••	•••	•••	236 277 494 123 21	11 61 304 54 26	11 46 9 4 16	150 23 1 2 11	247 323 503 127 37	16) 84 305 56
Khalifa Heliopolis Port-Saīd Port Said H Ismailia	Tealth	Cen	tre	•••	•••	•••	•••	31 160 60 21 32	2 14 24 19 3	$\begin{bmatrix} -16 \\ \cdot & 1 \\ - & 2 \end{bmatrix}$	$-\frac{51}{3}$ $-\frac{3}{12}$	47 160 61 21 34	53 14 27 19 15
Suez Damietta Benha Shebin-el-Ko Menouf Tanta	•••	•••	•••	•••	•••	•••	•••	146 3 57 46 3 62	89 4 44 30 —	$ \begin{array}{c c}  & 18 \\  & 2 \\  & - \\  & 4 \\  & - \\  & 52 \end{array} $		164 5 57 50 3	44 30 —
Mehalla-el-K Kafr El Zay Zagazig Facus Mansoura Mit-Ghamr	obra	•••	•••	•••	•••	•••	•••	32 23 53 9 47	22 2 17 8 6 1	1 8 - -	21 - - -	33 31 53 9 47 2	2% 23 18 8
Damanhour Kafr el Daw Giza Fayoum Sennuris Beni-Suef	•••	•••	•••	•••	•••	•••	•••	75 5 68 19 15 34	57 1 9 4 12	43 1 5 20 4 55	$-rac{5}{8} \\ -rac{22}{1} \\ 4$	118 6 73 39 19 89	62 26 13
Minia Samalut Assiut Deirout Gerga	•••	•••	•••	•••	•••	•••		59 8 95 1 44	3 1 3  16	- 2 - 1 1 12	- 15 - 4	59 10 59 2 56	20
Tahta Souhag Qena Nag Hamma Luxor Aswan	adi	•••	•••	•••	•••	•••	•••	11 3 22 22 22 58		7 3 7 9	- 4 - 4 10	11 10 25 29 67	
				To	TAL	•••	100	2,478	858	359	357	2,837	1,21

TABLE No. 114.—CASES CURED IN VENEREAL DISEASES CLINICS
DURING 1950.

		Cases (	bred		
Locality of Clinic	Sypl	nilis	Gonorrhoea		
	м.	F.	м.	F.	
Sayeda Zeinab Shubra Gamalia Abbassia Old Cairo Khalifa Heliopolis Port-Saïd Port-Saïd Health Centre Ismailia Seuz Damietta Benha Shebin-el-Kom Menouf Tanta Mehalla-el-Kobra Kafr El Zayat Zagazig Facus Mansoura Mit-Ghamr Damanhour Kafr el Dawar Giza Fayoum Sennuris Beni Suef Minia Samalut Assiut Deirout Gerga Tahta Souhag Qena Nag Hammadi	1 — 4 17 — 4 17 — 1 — 4 5 5 7 — 6 — 3 — 3 3 20 2 — 2 — 21 7 2 4 — 4 — 4 — 4 — 4 — 4 — 4 — 4 — 4 — 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	82 312 471 101 15 31 181 34 11 28 73 2 40 8 1 68 10 16 25 9 41 - 95 4 51 - 19 54 58 5 97 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8 - 49 1 9 8	47 119 303 46 10 2 22 10 32 9 48 4 24 24 8 20 17 8 457 7 12121212121212121212121212121212121212131415161710171017101	
Luxor		15 3	27 63	1 1	
Total	. 167	307	2,099	861	

TABLE No. 115.— NEW CASES OF SCABIES DURING 1950.

Locality of Clinic	Sca	bies	Table Cons	Scabies	
	M.	F.	Locality of Clinic	М.	F.
			Brought Forward	8,144	9,573
Sayeda Zeinab	186	169			
Shubra	449	1,193	Mansoura	432	496
Gamalia	169	177	Mit-Ghamr	659	642
Abbassia	<b>45</b> 3	366	Damanhour	776	2,289
Old Cairo	151	162	Kafr El Dawar	424	221
Khalifa	182	580	Giza	46	143
Heliopolis	128	230	Fayoum	323	239
Port-Saïd	329	384	Sennuris	184	257
Port-Saïd Health Centre	201	255	Beni Suef	<b>3</b> 72	290
Ismailia	126	111	Minia	210	231
Suez	23 <b>3</b>	205	<b>Sam</b> alut	88	106
Damietta	304	563	Assiut	541	821
Benha	710	709	Deirout	369	289
Shebin El-Kom	2,060	1,987	Gerga	379	518
Menouf	136	317	Tahta	152	159
Tanta	192	135	Souhag	121	70
Mehalla El-Kobra	573	626	Qena	188	215
Kafr El-Zayat	236	272	Nag Hammadi	120	83
<b>Zag</b> azig	925	754	Luxor	181	367
Facus	401	378	Aswan	116	141
<b>T</b> OTAL	8,144	9,573	TOTAL	13,825	17,159

TABLE No. 116.— New cases and Number of Visits to Mobile Units during 1950.

Units	New (	ases	Number of Visits	
	м.	F.	M.	F.
Ibrahimia	1,020	1,230	470	735
Saft El Khamar	96	61	6	3
TOTAL	1,116	1,291	476	738

Table No. 117.—Full Details.

$\mathbf{U}_{\mathbf{nits}}$		Scabies				Other Skin	
		New Cases		Cured Cases		Diseases	
		М.	F.	м.	F.	м.	F.
Ibrahimia	•••	251	233	117	131	769	997
Saft El Khamar	•••	38	11	-		38	11
Total	•••	289	244	117	131	807	1,008

Table No. 118.—New Cases and Visits to Scables
Treatment bath during 1950.

New C	a.ses	Number of Visits		
М.	F.	М.	F.	
3,244	2,095	5,404	3,694	

Table No. 119. -Hospitals and Clinics from which patients were forwarded during 1950.

District	Patients		
Pistrict	М.	F.	
Shubra Clinic	1,678	1,700	
Sayeda Zeinab Clinic	44	22	
Gamalia C	139	72	
Giza C	61	21	
Old Cairo C	3	5	
Abbassia	157	15	
Boulaq Health Centre	300	229	
Khalifa Clinic	2	6	
Demerdash Hospital	4	5	
Malek Hospital	18	4	
Cairo H	7	5	
School Hygiene Dept.	16	9	
Other Units	813	2	
TOTAL	3,242	2,095	

# Chapter XII. - Mental Health

## Accommodation and Cases Treated:

The crowding has become more evident so as to cause anxiety. The number of patients re-admitted in both hospitals during the year under report has also risen. This reflects the policy of discharging patients as soon as they improve which had to be adopted to make room for new admissions.

The number of patients remaining in both hospitals on 1/1/1950 was 5,483 (3,338 males and 2,145 females). Admissions numbered 3,906 cases (2,691 males and 1,215 females) bringing the total patients treated during the year to 9,389 (6,029 males and 3,360 females).

Discharges numbered 3,182 (2,209 males and 973 females). 3 males escaped and 369 died (201 males and 168 females)leaving 5,835 (3,616 males and 2,219 females remaining on 31/12/1950 as against 5,483 (3,338 males and 2,145 females) in the year 1949.

Accommodation remained unchanged; nor has any change taken place in the number of staff of all categories.

## Accused Persons Suspected of Insanity:

Among the cases admitted to Abbassia hospital were 208 (192 males and 16 females) accused persons suspected of insanity sent by the Procurer General for examination and report. 46 males and 2 females were sent back to the parquet as not insane, 30 of whom were accused of theft or attempted theft and embezellement, 7 of being in possession of narcotics, 6 of murder or attempted murder, and the remainder of different crimes.

Among those found insane, 21 were accused of murder or attempted murder, 42 of assault, 36 of theft and the rest of different crimes.

64 other reports were also sent to the Procurer General about inmates originally admitted as ordinary patients.

#### Discharges:

Among the discharges were 111 (88 males and 23 females) recovered, 2,559 (1,721 males and 838 females) relieved and 203 (102 males and 101 females) not improved. It is evident that the number of cases recovered is small in comparison with the total cases treated.

#### Deaths:

It is worth recording that the number of deaths was 201 males and 168 females i.e.  $3.9^{\circ}/_{\circ}$  This represents a very satisfactory ratio taking into consideration the prevailing conditions of over crowdedness, the shortage of staff and the physical condition of patients on admission.

### Ages of Patients and Duration of Residence:

Ages varied between 10 and 90 years while the duration of residence ranged between less than a month and over 40 years.

# Nationality, Religion and Occupation of Patients:

Patients from different nationalities, religions and occupations were admitted. They came from all parts of the Country and from the occupied territory of Palestine. Cairo Governorate came first followed by Alexandria and then Gharbia Province.

#### Pellagra:

1,064 males and 281 females suffering from pellagra were admitted. This represents 39.2% of admissions. The ratio in Khanka Hospital was proportionately very high as the majority of patients admitted to Abbassia Hospital come from the relatively well to do classes who can afford payment of treatment fees.

# Ophthalmic and Dental Clinics:

Both clinics have rendered services worthy of mention for the welfare of patients.

## Artificial Feeding:

This was carried out 18,744 times in Abbassia and 2,245 in Khanka without accident.

# Epileptic Fits:

6,703 fits were recorded during the year in Abbassia and 3,501 in Khanka.

## Physical Illness:

7,603 cases were treated in Abbassia and 4,598 in Khanka.

## Accidents:

34 major accidents took place in Abbassia and 21 in Khanka.

Minor accidents numbered 551 in Abbassia and 295 in Khanka.

## Pharmacy:

40,100 prescriptions were prepared in Abbassia and an almost equal number in Khanka.

## X Ray Dept:

238 photos and 327 screenings were made. These were all made in Abbassia, as Khanka Hospital has no X Ray Apparatus.

### Physical Condition of patients:

The ratio of those admitted in a poor physical condition in Abbassia was 17.11°/<sub>o</sub> In Khanka this ratio was 47°/<sub>o</sub>.

### Board of Control:

Both hospitals sent to the Board thousands of reports on new patients and those recommended for renewal of periods of detention. Thousands of other correspondence for the discharge and admission of patients were also sent.

#### Out-Patient Clinics:

These have rendered good services to attendants and have well served the purposes for which they were provided. More out-patient clinics are recommended. 414 cases were examined in King's Hospital clinic, 477 in Boulaq Hospital clinic and 4 in Abbassia Hospital.

### Social Services:

The Department wishes to place on record the many valuable services rendered by the Social Services Section. Besides the activities of the two social workers in the two out-patient clinics, the supervision of the library and indoor games, films were shown and meetings were held in the two hospitals for the entertainment of the inmates.

# Chapter XIII.-Health Education and Social Services

The year was marked by large scale propaganda activities in connection with the cerebro-spinal fever epidemic and the B.C.G. vaccination campaign.

With regard to the former, propaganda units were rushed to localities where cases were reported. All the available propaganda means were adopted to advise the inhabitants in methods of protection and the protective measures to be taken: notification, isolation and treatment. In this way, it was possible to isolate and suppress the disease in minimum time.

The following data illustrate the activities:

- 1. Some 50,000 pamphlets on cerebro spinal fever were published and distributed.
- 2. 20,000 posters were printed and distributed to towns and villages.
- 3. 15 talks by medical officers were broadcasted in addition to short advices during the news-bulletin.
  - 4. Three representations dealing with the disease were broadcasted.
  - 5. 22,340 lectures were delivered by propaganda units.
- 6. Assistance of preachers and Imams of mosques was sought to include their sermons advice to listeners.
- 7. Medical officers and staff of other ministries and departments contributed in propaganda activities against the disease.

# B.C.G. Vaccination Campaign.

On the commencement of the B.C.G. vaccination campaign, propaganda activities were directed towards demonstrating the value of the vaccine and persuading the public to profit by it and to pay no attention to rumours against its presumed danger. Public Health Inspectorates were instructed to direct propaganda units at their disposal according to plan of operation of the vaccination teams. 3,490 villages were visited by propaganda units for the purpose. Out of 50,000 pamphlets on the importance of vaccination, 30,000 were distributed. 20,000 posters were printed for hanging in public places in towns and villages. 35 copies of each of two films were produced dealing with this campaign. These were shown by propaganda vehicles and in cinemas.

With the suppression of the cerebro spinal fever epidemic, propaganda units resumed their ordinary activities against infectious diseases. The following are details of these activities:

Daytime propaganda	me	etings	•••	•••	• • •	•••	•••	4,864
Evening "		,,	• • •	•••	•••	•••	•••	3.771
Propaganda meetings	in	markets	•••	•••	•••	•••	•••	937
·»	,,	army and	poli	ce ba	arrac	ks	•••	111
22	>>	schools	•••	•••	•••	•••	•••	1,510
22	for	workmen	•••	•••	•••	•••	•••	364
59	in	cinemas		•••	•••	•••	• • •	937
>>	27	social cer	tres	•••		•••	•••	781

# Broadcasting:

Being one of the effective means of health propaganda, arrangements were made with the broadcasting authorities to allow more time and variation for health propaganda broadcasts. During the year, 61 talks on health were broadcasted by competent medical officers of the Ministry as well as 17 theatrical representations.

### Literature:

This, too, plays a major role in propaganda activities. Two million and a half copies from 31 pamphlets and sermons dealing with health problems were printed and distributed. 1,500 copies from 24 illustrated posters 'presenting health advice were printed and distributed to health offices and units for hanging on walls in places frequented by the public. 20,000 copies from each of four booklets on rural health, individual health, parasites and care of mother and babe were also published. Illustrated calenders bearing health maxims were printed for 1951 for distribution on the new year.

## Cooperation with other Sections of the Ministry:

- 1. Much propaganda activities were carried out during the health weeks held in connection with tuberculosis, nutrition, endemic diseases, cerebro spinal fever and flies and summer diseases.
- 2. During pilgrimage season, a propaganda vehicle was sent to Tor lazaret where 60 lectures were delivered on various diseases, 60 cinema shows given, 92 sermons and 20,000 propaganda publications distributed.
- 3. Extensive propaganda was carried out within Qaliubia Province urging the inhabitants to attend the units under the compulsory mass examination and treatment campaign against bilharzia.

### Conferences:

- (a) The Ministry assisted in the social seminar held in Turkey. An exhibition was organised in Constantinople. It was provided with models, posters, illustrations and all publications that reflect the health progress and health propaganda means in use in Egypt. Films were shown to the members and literature distributed.
- (b) The Ministry also assisted in the social seminar held in Cairo where similar exhibitions as in the former seminar were displayed.

## Cooperation with other Countries:

At the request of the Regional Office of the World Health Organization, the ministry displayed at the Constantionple meeting exhibitions of the health propaganda methods adopted in Egypt. All the various propaganda publications were also displayed. The ministry displayed its efforts in coordinating propaganda activities between government and private departments and institutions.

Most of the Middle East countries were supplied with quantities of propaganda literature. Syria and Lebanon ordered quantities of these publications. Propaganda vehicles have been equipped on the lines of those in use in Egypt and supplied to them.

#### Social Health Services:

The propaganda section has since last year become responsible for social healthf services rendered by the Ministry.

## Welfare of Patients in Hospitals:

Following the success of the meetings held last year for the entertainment of hospital inmates, a sum of L.E. 1,500 was distributed to Cairo hospitals and provincial health inspectorates for the welfare and entertainment of patients.

## The Social Health Services Office, Assiut:

1. Investigated 165 patients referred to it by general and district hospitals, child welfare centres, chest diseases dispensaries, ophthal mic hospitals, units of the Ministry of Social Affairs, and private societies.

Investigations carried out by the medical officer, social workers and health visitors revealed:

(a) 108 pregnants complained of frequent abortion or successive death of infants. Blood examination revealed syplilis infection. Of 55 of their husbands referred to the venereal diseases clinic, 41 were returned syphlitic and were provided with treatment facilities.

- (b) 23 tuberculosis patients complained of social and financial difficulties. Arrangements were made with charitable societies to extend to them financial aid. Meals were issued to them from public kitchens.
- (c) 12 patients required artificial limbs. The Hospital Day Society was requested to supply these.
- (d) The remaining cases complained of more than one problem; poverty, need for specific treatments, etc. These were forwarded to charitable societies for aid and to hospitals for treatment.
- 2. Health visitors paid visits to 284 houses to instruct mothers and pregnants in principles of hygiene and care of the babe and home.
- 3. Propaganda activities are now planned to meet the environmental requirements of the region as disclosed by investigations carried out by the office.
- 4. A health museum was set up where models were displayed. The various classes of the public were invited to visit it. 400 visits were paid to it by students, workmen, etc.
  - 5. 23 meetings were held for the entertainment of patients in hospitals.
- 6. The office approached all government and private bodies having social and medical activities with a view to co-ordinating their efforts for the benefit of the inhabitants.

# PART III\_TREATMENT

# Chapter XIV.-General Hospitals

## Number of Hospitals:

The number of hospitals in operation during the year was 93 of which 22 were located in governorates and chief towns of provinces, 67 in district towns and four out-patient clinics.

### Accommodation:

The total number of beds in hospitals was 8,573 including beds of ophthalmic and ancylostoma branches within hospitals, and 1,221 beds for resident medical and nursing personnel.

#### Treatment:

The number of in-patients treated during the year totalled 114,430 and the outpatients numbered 2,556,715 who paid 4,231,300 visits to hospitals.

### Surgical Operations:

A total of 52,006 operations were performed in the in-patient sections and 95,749 in the out-patients as against 46,963 and 76,947 respectively in the previous year.

### X-Rays Examination and Treatment:

Some 28,300 cases were examined and treated by X Rays as against 24,665 cases last year.

### Deaths:

A total of 4,489 deaths were recorded among the 114,430 in-patients treated during the year. This gives a ratio of 3.92°/o as against 4.06°/o last year.

Table No. 120.— Number of Hospitals Operated by the Hospitals Section from 1940-1950.

					DECTION	N FROM 134			
	7	/ear			General Hospitals in chjef towns of Provinces and Governorates	Hospitals in Bandars of Markaxes and impor- tant towns	Village Hospitals	Hospitals in the Oases	Genaral diseases O.P. Dispensaries
1940	•••	•••	•••	•••	20	51	62	demission	3
1941	•••	• • •	***	•••	20	52		a	3
1942	•••	***	•••	•••	20	52		-	4
1943	•••	•••	•••	• • •	26	52		_	3
1944	***	•••	•••	•••	27	53	on-moons.		2
1945	•••	•••	•••	•••	27	53		6	2
1946	•••	•••	•••	•••	28	61	_	6	2
1947	•••	•••	•••	•••	28	56	promised	-	4
1948	•••	•••	•••	•••	28	56			5
1949	***	•••	•••		29	56	-	discribed to	5
1950	•••	•••	•••	• • •	22 *	67	-	D-10000	4

<sup>\*</sup> The title "General Hospital" is now restricted to hospitals in Governorates and chief towns of provinces, hence the difference in their number this year and the previous year

TABLE No. 121.—Statement of Hospital Accommodation

		Year			No. of Beds	Comments
1940	•••	•••	•••	• •	6,926	In this year Venerial Diseases Hospitals were detached from the Section.
1941	•••	• • •	•••	•••	6,96 <b>9</b>	In this year the Village hospitals were detached from the
1942	•••	•••	•••	•••	6,880	Section
1943	•••	•••	•••	••	6,363	The Alexandria Hospital was detached this year.
1944	•••	•••	•••	•••	6, <b>5</b> 5 <b>3</b>	
1945	•••	•••	•••	•••	6,663	
1946	•••	•••	•••	•••	7,014	
1947	•••	•••	•••	• • •	6,879	The Frontiers and Demerdash Hospitals were detached this
1948	•••	•••	•••	• • •	7,171	year from the Section.
1949	•••	•••		•••	<b>6</b> ,878	The reduction of number of beds this year was due to the
1950	•••	•••	•••		8,573	Helmieh Zeitoun Hospital being requisitioned by the Ministry of War and Marine.  This number includes beds of Ophthalmic and Ancylostoma Branches within Hospitals.

TABLE No 122.—DISTRIBUTION OF HOSPITAL BEDS

	1			1			· · ·		
Hospital	lst Class,	2nd Class	3rd Class Paying	3rd Class Gratis	Ancy- lostoma branch	Ophth. branch	Total beds for patients	Resident M.Os.& Nurses	Grand Total
King's				346			346	109	455
Helmiet-el-Zeitoun		Requis	itioned		Minist	ry of V	Var & I		200
Boulaq	—		_	32		6		32	70
Incurable Diseases at Helwan Bab el Shaaria	_			170			170	128	298
Port Said	-	2	16	$\begin{array}{c c} & 136 \\ \hline 262 \end{array}$	_	_	$\begin{array}{c c} & 136 \\ \hline 282 \end{array}$	31 43	$\begin{array}{c} 170 \\ 325 \end{array}$
Suez	8	15		164	20	25		31	263
Damietta		$\begin{bmatrix} 2\\4 \end{bmatrix}$		88 94	20	37	147	13 15	160
Tanta	11	$2\frac{1}{2}$	_	314	20	_	377	90	113 467
Mansoura	—		_	207	20		<b>2</b> 22	28	<b>2</b> 50
Mit Ghamr Zagazig	1	3	_	$\begin{array}{c} 47 \\ 220 \end{array}$	20		79 <b>2</b> 2 <b>4</b>	$\begin{array}{c} 11 \\ 20 \end{array}$	$\begin{array}{c} 94 \\ 248 \end{array}$
Shebin-el-Kom		2		104		emanufus/ggs	106	12	112
Benha	—	_		71 85		_	71	11	83
Fayoum				93			85 93	$\frac{8}{10}$	$\begin{array}{c} 93 \\ 102 \end{array}$
Beni-Suef			_	114	20	_	134	8	147
Minia		1		89 28	20	-	90 61	37 8	$\begin{array}{c} 129 \\ 6 \end{array}$
Maghagha		I	n-Patier				t starte		U
Assiut	_	41		192	20	—	216	17	233
Mallawi	_	—	—	48		20	88	14	10 <b>2</b>
Souhag		2		87 33	-		89 <b>33</b>	$\begin{bmatrix} 29 \\ 5 \end{bmatrix}$	118 38
Qona		1		74	20		65	12	107
Luxor	4	3		81	20	25	133	18	148
Esna	_ <sub>1</sub>	_ 2	_	68 48	20	$\begin{array}{c} 23 \\ 25 \end{array}$	91 96	14	105 99
Shubra-el-Kheima	<u> </u>			22			22	3	25
Ismailia		$ \cdot $ 2	_	,90	20	12	124	13	140
Delingat				29 108	$\begin{array}{c} 20 \\ 20 \end{array}$	$\begin{array}{c} 12 \\ 12 \end{array}$	$\begin{array}{c} 61 \\ 140 \end{array}$	1 11	68 151
Itay el Baroud		$\mathbf{I}_{i}$	n-Patier				t starte	,	
Rosetta	_		_	29	20		61	[3	69
Shoubrakhit	_	_	_	54	20	12	86	8	94
Edfina Kom Hamada	_			44 29	20		44 60	6 9	50 69
Mahmoudîa	_	_		21	_	_	21	4	25
Abu Hommos	_			$\begin{array}{c} 27 \\ 54 \end{array}$	$\begin{array}{c} 20 \\ 20 \end{array}$		47 87	7 8	54 95
Dahant		T-	n-Patier			2	t starte	- 1	,
Mehalla-el-Kobra	nor-time;	-		114			134	14]	148
Samanoud	_	_	_	46		10	56	8	64
Tayeba	_	_		$\begin{array}{c} 32 \\ 31 \end{array}$	20 <b>2</b> 0	$\begin{array}{c} 15 \\ 12 \end{array}$	63 67	$\begin{bmatrix} 7 \\ 9 \end{bmatrix}$	74 $72$
Sherbin              Zifta	_			45			45	11	56
Kafr-el-Sheikh		2		60		-	62	7	69
Al Absheet Dispnsary			(		ient dis				
Fowa		-		$\begin{bmatrix} 34 \\ 32 \end{bmatrix}$	20	8 8	1	$\begin{vmatrix} 6 \\ 10 \end{vmatrix}$	68 50
K fr-1]-Zayat		T-	n-Paties		rtment		t starte		90
Biala Faraskour				10 depa   31					66
Simbellawein	_		_	20	20		52	11	63
Manzala			_	41 44	$\begin{array}{c c} 20 \\ 20 \end{array}$	<del>-</del> 8	$\begin{array}{ c c } \hline & 61 \\ & 72 \end{array}$	11 7	72 79
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-		66				11	109
								-	

## Table No. 122 (contd.)

Hospital	İst Class	Žnd Class	3rd Class Paying	3rd Class Gratis	Ancy- lostoma branch	Ophth.	Total beds for patients	Resi- dent M. Os & Nurses	Grand I otal
	-								
Shawa Dispensary			(		ient Dis			1	
Belbeis		-		24					
Facous				3 <b>3</b>				11	76 70
Minia-el-Kamh	•			32					10
Hehya		I	n-Patie					ed	
Taftish-el-Wadi Clinic			C	ut-Pati	ent Dis	pensary	7		
Ińshas		2	2	29		20	1		64
Tala				30	20	12	62	7	69
Ashmoun				54	20		86		95
Menouf	•			60	20 20	16 14	96 67	11	107 76
Zawyet el Na'oura				$\begin{array}{c} 33 \\ 27 \end{array}$	20	12	59	10	69
Shebin el Kanater				31	20	12	63	7	70
Saff				49	20	16	85	10	95
f Ayat				19	20	12	51	5	<b>65</b>
Itsa				13	20	12	45	8	53
Béha		*****		35	20	12	67	10	77
Beni-Mazar				40	20	14	74	15	89
Fashn				26	20	12	58	8	66
Samalcut				71	20 20	12	91 62	10 10	101 72
Deircut	-			$\begin{array}{c} 30 \\ 27 \end{array}$	$\frac{20}{20}$	10	57	7	64
Bidai				27	20	8	55	7	62
Sahel Selim				38	_		38	5	43
A.7 A.*				36	20	12	68	9	77
Abu-ug Akhmim				31	20	12		4	67
Baliana		<u></u>		24	20	12		7	63
Gerga		_		50	20	12		9	91
Dishna			-	25			<b>5</b> 3 <b>6</b> 5	. 9	62 72
Kous		_		<b>3</b> 3				•	12
Mata'ana Dispensary			C		ent Dis	pensary			
Nagʻ Hamadi				28	20	$ \cdot $ 14		9	71
Kom-Ombo				25		7.4	25	5	29 66
Edfou				27	20	14	61 11	1	12
Ineiba				11			11	1	1.2
lir Hospital Boat									
	4								
GRAND TOTAL	. 27	69	18	5,421	1,120	697	7,352	1,221	8,573

#### Treatment:

The following table No. 123 gives the number of patients treated in hospitals, during the last five years.

Year	In patients	Outpatients	No. of visits to O.P. Depts.
1946	103,496	2,285,035	3,920,413
1947	92,699	1,952,519	3,363,931
1948	99,092	2,165,007	3,520,316
1949	104,732	2,286,893	4,098,140
1950	114,430	2,556,715	4,231,300

### Operations;

TABLE NO. 124—OPERATIONS PERFORMED IN HOSPITALS
DURING THE LAST FIVE YEARS.

Year	Operations for in-patients	Operations for out-patients	TOTAL
1946	40,454	79.977	120,431
1947	39,346	74,326	113,672
1948	39,628	73,604	113,232
1949	46,963	76,947	123,910
1950	52,006	95,742	147,755

### X - Ray Examinations:

TABLE No. 125—X RAY EXAMINATIONS UNDERTAKEN DURING THE LAST FIVE YEARS.

Year	X Ray Examination
· · · · · · · · · · · · · · · · · · ·	
1946	. 29,309
1947	25,304
1948	27,248
1949	24,665
1950	. 28,300

Deaths.

TABLE No. 126.—IN PATIENTS TREATED AT HOSPITALS AND NUMBER AND PERCENTAGE OF DEATHS AMONG THEM DURING THE LAST FIVE YEARS

	Year		Number of patients treated	Number of deaths	Percentage
1946		•••	103,496	3,453	3.3
1947	•••	•••	92,699	4,693	5.06
1948	. •••	•••	99,092	3,723	3.75
1949		•••	104,732	4,258	4.06
1950	···		114,430	4,489	3.92

Venerea Diseas s.

Table No. 127.—Female Patients Treated in General and District Hospitals during 1950

Gonorrhoea	Syphilis	Other diseases	TOTAL
213	300	_	513

TABLE NO. 128.—TOTAL PATIENTS TRATED FOR V.D.
AT THE GEN. AND DISTRICT HOSPITALS
DURING THE YEAR 1950

		Gonorrhœa	Syphilis	TOTAL
In-patients	•••	2	366	368
Out-patients	•••	4106	12,803	16,909

# Chapter XV.-Ophthalmic Hospitals

### New Units:

Branches: Behout - Teh El-Baroud - Sennouris.

This brings the total number of units to: Permanent 91

Travelling 15

106

## Clinical Work:

The following table shows the clinical work done during 1950 as compared with that of 1949.

1949 1950 New Patie to ... ... 1,287,6661,445,921 Out-patients 5,436,740 5.698,972Number of out-patient visits  $7,20^{+},525$ 6,774,156Opera ions ... ... ... 207,190210,773 Ophthalmias 313,064305,140

Tabke No. 129

# Blindness:

The number of cases of blindness including cataract cases was 41,289 or a ratio of  $2.7^{\circ}/_{o}$  of the total patients examined. While the number of cases of blindness excluding cataract cases was 38,792 or a ratio of  $2.5^{\circ}/_{o}$ 

#### Other Services:

- 1. Ophthalmologists pay regular visits to the following institutions and hospitals to examine and treat ophthalmic cases:
  - A. Leprosy Hospitals at Sioufia and Abu-Zaabal.
  - B. Mental Diseases hospitals at Abbassia and Khanka
  - C. Fever Hospitals at Abbassia and Embaba.
  - D. Convalescents colony at Marg.
  - E. Children's preventoria at Giza and Marg.
  - F. Mataria Dispensary.
  - G. Chronic Disease Hospital at Helwan.
- 2. From time to time, ophthalmologists are sent to Arish, Tor and the oases to examine the inhabitants and treat their eye diseases. Ophthalmologists also accompany the medical mission sent to the Hedjaz during pilgrimage to treat pilgrims.
- 3. Medical officers of other ministries are allowed to attend ophthalmic hospitals to profit by modern technical researches and to be trained in the performance of the various ophthalmic operations.
- 4. Ophthalmic units of other ministries and departments are provided with ophthalmologists who have been technically trained in ophthalmic hospitals.

5. Assistant midwives and health visitors of rural health centres are trained in ophthalmic treatment so that they can render first aid to villagers and advise them in cases of ophthalmias, etc.

## Nursing in ophthalmic Units:

The Ministry is pursuing its policy of replacing male attendants in ophthalmic units by nurses.

#### Accommodation:

The number of beds in ophthalmic units was 2,412. More beds are provided where space in in-patient sections permits.

### Post Graduate Course:

Post graduate courses in ophthalmology are organised for fresh graduates studying for the Diploma in ophthalmic medicine and surgery at Cairo University.

### Ophthalmic Library:

The circulating ophthalmic library, with its headquarters at Rod El Farag ophthalmic hospital, is constantly supplied with old and modern references for the benefit of junior ophthalmologists in ophthalmic units and to keep them acquainted with technical developments.

### Apparatus and Instruments:

The Ministry keeps ophthalmic units provided with modern apparatus and instruments, thus keeping pace with new developments in the ophthalmic field.

# Chapter XVI. - Pharmacies

### Private Pharmacies:

45 permits for new private pharmacies were granted this year by the Ministry. Approval was given for the transfer of ownership of 23 pharmacies some of which were owned by non-pharmacists.

### Night Service Pharmacies:

Four night service pharmacies were in operation this year as against two in the previous year. These dispensed 12,421 prescriptions, exclusive of patented medicines which are dispensed without prescriptions.

### Agents:

21 permits for agents having depots and one for an agent without a depot were granted this year.

## Registration of Egyptian Specialities:

91 permits were granted for the preparation of Egyptian specialities and 18 specialities were refused registration. This brings the total of registered specialites to 1,746

### Pharmaceutical Laboratories:

Seven permits for pharmaceutical laboratories were granted this year.

### Application of the law:

Out of 173 contraventions served this year, 101 were for trading in or being in possession of poisonous substances and drugs without permits; 3 for practising pharmacy without a licence and 69 were against pharmacists and assistant pharmacists.

## Poisonous Drug Stores (Schedules 1 and 2):

Four permits were granted this year: (One in each of Gharbia, Menoufia, Damietta and Fayoum).

## Schedule IV Drug Stores:

18 permits were granted: 9 in Cairo, 5 in Alexandria, 3 in Gharbia and one in Port-Said.

### Schedule V Drug Stores:

Seven permits were granted: 4 in Cairo, 2 in Aswan and 1 in Alexandria. One in Cairo has since been withdrawn.

#### Schedule XI Drug Stores:

13 permits were granted: 3 in Assiut, 2 in each of Gharbia and Menoufia and one in each of Menoufia, Qaliubia, Dakahlia, Canal, Aswan and Minia.

Table No. 130 gives quantities of stupefacients imported into Egypt and exported therefrom during 1950.

### Table No. 130

Drug	Quantity Imported	Quantity Exported
Opium and its preparations	24.036 kgs.	·
Morphine and its salts	2.174 ,,	
Cocaine and its salts	1.050 ,,	

347

Quantities of stupefacients confiscated for illicit import and export:

3,680 kgs. Opium 17,734 kgs. Cannabis Indica 636 grms. Heroin

Cocaine Quantities of stupefacients consumed for medicinal purposes:

Opium and its preparations 24.676 kgs. 1.652 ,, Morphine and its Salts 0.640 grms, Cocaine 27 79

# Chapter XVII.—Universities Hospitals

### Manial University Hospital:

The accommodation remains unchanged as in the previous year, namaly 1,449 beds.

### In-Patients Department:

A total of 22,118 in-patients were admitted to the various departments during the year or 1,689 more patients than the preceding year. Of this number, 16,733, were discharged as cured, improved or at their own request as against 15,982 in 1949. 4,076 were transferred to the outpatients department for further treatment and 205 were referred to other hospitals. Deaths totalled 896 or a ratio of 4.1 per cent as against 718 deaths and a ratio of 4.2 per cent in 1949.

A new department has been provided in February 1950 in the hospital to accommodate cases involved in accidents. Of 480 cases admitted, 357 were cured and 94 died.

### Out-Patients:

The out-patients totalled 916,945 (382,867 new and 534,078 old) or 17,016 out-patients more than the previous year when the out-patients consisted of 338,202 new and 561,727 old. A good feature is the decrease in out-patients suffering from tuberculosis, surgical, urinary, bone and dental diseases. Medical, nervous and tropical diseases cases are on the increase.

### Diagnosis of in-patient medical diseases:

The following are details of the ten principal headings under which fall the diagnosis of medical diseases treated within the in-patient departments:

- (1) Respiratory system diseases numbered 2,180 (1,647 males and 533 females).

  159 deaths or 7.3 per cent were recorded (124 males and 35 females).
- (2) Digestive system diseases numbered 2,185 (1,487 males and 698 females).

  122 deaths or 5.6 per cent were recorded (98 males and 24 females).
- (3) Diseases of the Cardiovascular system numbered 3,552 (2,258 males and 1,294 females). 444 deaths or 12.5 per cent were recorded (308 males and 136 females).
- (4) Diseases of the Uro-genital organs numbered 878 (711 males and 167 females).
  78 deaths or 8.9 per cent were recorded (66 males and 12 females).
- (5) Diseases of the central nervous system numbered 1,523 (1,124 males and 399 females). 91 deaths or 6 per cent were recorded (74 males and 17 females).
- (6) Diseases of the blood, lymphatics and spleen numbered 906 (652 males and 254 females). 64 deaths or 7.1 per cent were recorded (49 males and 15 females).
- (7) Diseases of the metabolism and endocrine glands numbered 617 (386 males and 231 females). 30 deaths were recorded (22 males and 8 females).
- (8) Diseases of the joints and bones numbered 459 (244 males ad 215 females). Two deaths were recorded.
- (9) Infectious diseases and fevers numbered 107 (82 males and 25 females). Two male and three female deaths were recorded.
- (10) Miscellaneous diseases: ear, eye, obstetric, skin, etc., numbered 231 (152 males and 79 females). 31 deaths (25 males and 6 females) were recorded.

### Kasr el Aini Hospital:

The number of beds is the same as last year, i.e. 1,250. Patients admitted to the hospital totalled 21,572 or 224 patients more than last year.

### Casualty Cases:

A total of 4,045 casualty cases were admitted to Kasr el Aini Hospital during the year as against 5,158 in 1949. Of this number, 3,679 were discharged as cured and 376 died. Motor accidents accounted for 681 cases, falls, from heights and stairs, accounted for 1,331. cases. Tram accidents accounted for 238 cases. Burns and scalds accounted for 439 cases. Deaths among casualty cases were: 63 from motor cars, 35 from tram, 73 from falls and 151 from burns and scalds.

## Discharges:

Of 19,999 patients discharged during the year, 12,329 were cured, 6,905 were referred to the out-patient department or other hospitals for further treatment. 765 died or 3.8 per cent. This is a satisfactory ratio if we remember that 376 of these deaths were casualty cases.

Surgical cases treated during the year totalled 14,785 (10,829 males and 3,956 females). Deaths totalled 1,135 or 7 per cent (826 males and 309 females).

### ALEXANDRIA UNIVERSITY HOSPITALS

### Central Hospital:

### Accommodation:

202 beds were added this year, bringing the total accommodation to 817 beds or 32 beds more than its original strength before the establishment of the Faculty of Medicine.

## In-patients:

The total number of in-patients treated during the year was 20,993 or 3,287 in patients more than the previous year.

Surgical and orthopaedic cases numbered 10,326 or almost half the in-patients; medical cases 4,886, and gynaecological and obstetric cases 3,477.

19,974 in-patients were discharged as cured, improved or at their own request.. Deaths totalled 970 or 4.8 per cent (655 males and 315 females).

Diagnosis of medical diseases cases revealed that respiratory system diseases accounted for 486 cases, digestive system diseases for 288; cardiovascular system diseases for 710 cases; urogenital system diseases for 62 cases; central nervous system diseases for 404 cases; diseases of the blood, lymphatics and spleen for 200 cases; diseases of the metabolism and endocrine glands for 108 cases; diseases of the joints and bones for 80 cases; infectious diseases and fevers for 7 cases and sundry diseases for 413 cases. Deaths from medical diseases totalled 202 or 7.3 per cent (149 males and 53 females).

Surgical cases totalled 5,120 (3,718 males and 1,402 females). Deaths from surgical diseases were 256 or 5 per cent (182 males and 74 females).

#### Out-patients:

These totalled 742,542 (220,662 new and 521,880 old) as against 733,928 out patients in 1949 (232,303 new and 501,625 old). The ophthalmic department had the greater number of out-patients, i.e. 239,378 followed by the surgical department with 202,135 out-patients and the medical diseases department with 180,714 out-patients.

For more details, please refer to the Annual Report of the Universities Hospitals Department

# PART IV.-ENDEMIC DISEASES

# Chapter XVIII-Ancylostoma and Bilharzia Treatment

## I. Statistical summary of treatment activities during the year.

The following table No.131 is a statistical sum nary of the treatment activities of the Endemic ciseases units during 1950 as compared with the prevous year:

### 1. Out-patients Services:

TABLE No 131

Item	Year	New patients	Bilhar	zia	Ancylost	oma	Ascari	8	No. of injections to	Anthel- mintic
		Titow part(1103	positive	%	Positing	0/	Positive	%	Bilh. Pats.	Doses
Base Units	1950		585,821	51	132,338	14	401,366	33	4,306,583	456,592
•	1949	1,133,223	599,735	52	181,814	16	323,367	29	4,322,370	420,296
Village treat-	1950	5,699	3,864	68	522	9	3,647	66	30,380	2,085
units (	1949	10,702	2,815	2;	225	2	1,717	16	20,495	1,247
Mobile u its	1950	50,334	<b>57</b> ,830	75	5,565	11	24,950	49.5	140,092	17,181
1	1949	34,068	17,929	53	3,631	11	19,032	56	104,672	16,320
Cooparative	1950	65,378	24,350	37	6,225	9.5	17,107	26	174,120	15,712
Centres	1919	49,913	20,855	42	5,823	12	11,649	23	129,791	13,299
School Pupils	1950	30,378	9,897	33	617	2	3,212	11	53,756	3,244
• (	1949	21,138	7,481	35	285	2	1,755	8	45,346	1,414
Army Recruits	1950	4,910	2,525	51	1,307	27	1,498	31	26,887	2,423
)	1949	9,113	4,384	48	1,640	18	2,206	24	40,511	3,573
Workmen	1950	22,498	8,511	33	2,509	11	7,810	35	64,993	9,375
Workmen )	1949	16,354	7,730	47	858	5	11,130	61	61,496	10,382

### Meals:

A total of 325,932 meals were distributed to anaemia and pellagra out-patients by the 100 units.

# Certificates of Freedom From Parasites:

186,070 certificates of freedom from parasitic infection were issued to pupils and workmen. This does not include the large number issued to pupils by the School Health Service of the Ministry of Education.

## 2.—In-patients:

Of 21,265 in-patients treated during the year, 20,312 were cured and 953 improved as against 17,783, 17,069 and 714 respectively in 1949,

# II.—New activities started during the year:

- (a) New Units: No new units were provided this year. The number of units remained the same, namely 101.
- (b) New In-patient Sections: Two 20-bed inpatient sections were provided in the Endemic Diseases units within Desouk and Nag Hamadi district hospitals and opened for treatment on September 10,1950. This brings the number of in-patient sections to 99 accommodating 2,020 beds besides a 40-bed section in Tewfikia Endemic and Medical Diseases Hospital (Behera).
- (c) Movement of Mobile units: Light travelling and mobile units were transferred to other localities where they were needed most according to the incidence of endemic diseases among their populations.

## III.—New developments in the services:

1.—Extension of activities of units by:

## A.—Village Bases:

Since endemic diseases examination and treatment units cannot be substantially increased to cope with the large number of patients owing to lack of funds, it was decided to introduce the "village bases" method. A number of laboratory assistants assisted by an equal number of attendants are charged with the work in areas having a population from 5,000 to 10,000 (in one or two neighbouring villages). The laboratory assistant undertakes the recording, examination and treatment of the population under the supervision of the medical officer who visits the area at wide intervals when needed.

The procedure was adopted in villages of Qaliub District. The Ancylostoma Hospital at Qaliub was reinforced by 6 laboratory assistants and 6 attendants and the necessary equipment.

Thirteen villages were involved. The hospital medical officer paid weekly visits to the villages for clinical examination, administering anthelmintic doses and prescribing the doses of injections.

The number of new patients during 1950 was 68,015 as against 16,970 in 1949. The number of anthelmintic doses was 19,582 and the number of injections 171,942 as against 8,467 and 64,594 respectively in 1949.

Thus with an extra L.E.1,000 over the normal expenditures of Qaliub hospital, it was possible to increase its activities threefold by the new procedure.

The average increase of cost per patient was 1.5 milliemes not including cost of medicines. This is a record figure unparalleled elsewhere.

### B.—Treatment operations:

These have been extended to 37 factories and firms. Of 22,492 workmen examined, 8,533 were positive for Bilharzia, 2,509 for Ancylostoma and 7,810 for ascaris. 68,383 Bilharzia injections and 9,442 anthelmintic doses were given.

# 2.—Use of Stebophen in Bilharzia treatment:

Stebophen was the drug of choice this year. It was used in the same way as Repodral.

### 3.—In-Patients Sections:

The modification of diet for amoebic dysentery in-patients has been authorised in certain units. During the first few days the in-patient is placed on milk diet with the substitution of the bread, milk, and meat with lemon, sugar cane or orange juice. About 3 days later when the patient improves, he is given ordinary diet, milk and nabatine being substituted by tea.

(b) Diets for anaemia and pellagra patients have been improved to include vitamin-rich foods, so as to produce 3,267 calories.

The results were satisfactory. The haemoglobin content has increased and the patient is cured within two weeks as against three or four weeks with ordinary diet.

## 4.—Increasing free meals to out-patients:

Owing to the great number of out-patients in Qena and Aswan provinces who suffer from aneamia and malnutrition, it has been decided to increase the number of free meals issued to out-patients from 10 to 20 meals daily.

## IV.—Progress of Ancylostoma and Bilharzia new Schemes:

### 1.—Bilharzia compulsory treatment Law:

Since bilharzia patients are apt to cease treatment on the slightest improvement, and since medical services of other departments now exist in almost every area, a ministerial arrêté was issued in October 1950 for the application to all the country of Law No. 58 of 1941 — providing for the compulsory treatment of Bilharzia which was applied to Fayoum Province in 1943. Where no medical units existed, a mobile unit was sent for examination and treatment. Credits for 27 mobile units have been provided this year.

### 2.—Cooperation with other medical services interested in Endemic Diseases treatment:

### Combined Bilharzia treatment at Qaliubia:

Reference was made to this experiment in last year's report. It was started on December 21, 1949 and stopped in mid June 1950. Results obtained during the six months were satisfactory as indicated hereafter.

The base ancylostoma units could not increase their output because their medical officers were occupied with the mobile units in addition to their original duties.

The number of patients treated by the other combined units increased as indicated by the increased number of injections to three imest that of 1949 and the anthelmintic doses to five times their number in 1949.

A large proportion, 63.2 per cent, of bilharzia infected persons commenced treatment. With mobile units of the Ministry of Education this ratio was 93.9 per cent. Patients' attendance for treatment was also better. The average number of injections per patient was 10 as against 8 in the past. A credit of L.E. 25,000 has been allocated for the extension of the experiment to another province.

### 3.—Certificate of Freedom from Parasitic Infection:

- (a) Candidates for government daily paid service are now required to produce a certificate of freedom from parasitic infection with their documents of appointment.
- (b) Amendment of Law 73 of 1943 governing itinerant vendors has been proposed. No licences will be issued or renewed to itinerant vendors before they produce certificates of their freedom from parasitic infection.
- (c) Factories and private concerns have acceded to the ministry's request to insist on new workmen producing a certificate of freedom from parasitic infection before they take up appointments.

#### 4.—Results of the compulsory treatment at Talat Village, Fayoum:

The Bilharzia Snail Destruction Section was asked to intensify its snail control activities in water courses within a radius of three kilometers around the village. The inhabitants were examined for bilharzia and all positive cases were treated. The inhabitants were re-examined after 3 months from treatment and positive cases were treated.

The first examination showed that out of 3,232 persons examined 1,842 were positive and 1,390 negative. Only 1,802 positive cases were treated.

The second examination revealed that of the 1,802 treated, 1,739 were re-examined and 372 or 21.4 per cent were positive for bilharzia. Of the 1,390 negative cases, 1,333 were re-examined and 82 or 6.1 per cent were found positive. 326 of the positive cases came for treatment.

Since 6.1 per cent of the negative cases on first examination became positive on second examination, negative cases were subjected to monthly examination. And since 21.4 per cent of the positive cases who had been treated and cured became positive again, positive cases have been subjected to three monthly examination to determine the extent of relapses and new infections.

New infections have been detected among children of not more than 4 years of age. It was decided to record births as from 1944 in special lists, each year separately and to examine each group once every year in January. This was done in 1948, 1949, and 1950. The ratios of infection were as follows:

12.3	per cent	at	age	of	3	year	s.
39.6	,,		,,		4	,,	
58	,,		,,		5	,,	`
86.8	<b>&gt;</b> >		,,		6	,,	

## Observations:

### New Bilharzia infections:

Despite the intensified efforts of the Bilharzia Snail Destruction Section, new infections were continually detected:

- (a) Among cases found negative on first examination.
- (b) Among children and (c) Among children born after the campaign was started.

It was also observed that children contract the disease as early as at the age of two or as soon as they are able to walk.

The ratio of infection is higher among positive cases already treated than among negative cases. This may be due to special circumstances of the former that bring them in contact with contaminated water.

The ratio of infection is higher among younger age groups than among older.

### Relapses:

Ratios of relapses were as high as 56 per cent. These occurred at prolonged intervals which emphasizes the futility of examinations carried out directly after treatment.

### Incidence of Infection:

Bilharzia infection is scarce during winter and spring. This shows that the incidence is seasonal during Summer when the temperature is high, the water is low and the canals favour the breeding of snails.

### Intensity of Infection:

Infection resumes its former intensity among positive cases within two years of treatment. The ratio of infection was almost 100 per cent at the age of six years. This shows the need for strict executive measures to protect children before reaching this age.

# Drug Tests:

Mention was made in the 1947 report to the treatment of bilharzia with repodral injections on 10 successive days.

Reference was made in last year's report to the following tests:

- (a) Daily administration of tartar emetic instead of every other day.
- (b) Two-day treatment with repodral for in-patients.
- (c) Four-day treatment with repodral for out-patients.
- (d) Two-day treatment with tartar emetic for out-patients at Shubra Ancylostoma Hospital.

Since great caution needs be taken with short interval treatments and desiring that the results be based on sound foundation, it was decided to continue the experiments which were not completed before the end of the year.

### Training:

The training centre of Fom el Khalig Ancylostoma Hospital continued to train new personnel of this Section and other medical services in examination and treatment techniques. During the year, 24 medical officers, 10 clerks and 65 laboratory assistants were trained. Besides, attendants of social centres of the Fellah Department of the Ministry of Social Affairs have been trained in laboratory preparation technique of specimens.

An auxiliary training centre was set up at Sayeda-Zeinab Ancylostoma clinic to meet the ever increasing number of candidates.

A laboratory assistant has been trained at the Research Institute for Tropical Diseases in the preparation of preserved specimens.

The Ancylostoma and Bilharzia inspectors have been asked to hold examinations for old laboratory assistants while inspecting the units to ensure that they have not forgotten the technical information they had received.

### VI.—Prophylaxis:

Educational propaganda.

In addition to propaganda activities undertaken by the Ancylostoma and Propaganda units, the section took the following steps:—

- (a) A booklet on bilharzia was distributed to all elementary and compulsory education schools throughout the country, to preachers and the press.
- (b) Participation in the health week held in commemoration of the passing of 25 years since bilharzia control was launched.
- (c) Preachers from Damanhour, Zagazig and Cairo were lectured in endemic diseases so that they may spread the information among their listeners.
- (d) Lectures with cinema illustrations were given in Nokrashi Model School to raise the standard of health education among the pupils.
- (e) Army warrant officers were invited to attend lectures in endemic diseases control at Fom el Khalig Hospital for one week; so that they can convey the information to their men.
- (f) Laboratory assistants and assistant nurses were instructed to include in their lectures to patients information about nutrition. The units were provided with pamphlets entitled "Proper methods of food preparation" and "Food as a source of infection" for the purpose.

#### Executive:

Since Law No. 58 of 1941 providing for the compulsory treatment of bilharzia has been applied to the whole county and in order to safeguard treatment activities, steps have been taken to issue a ministerial arrêté for the application to the whole country of Decree dated December 18, 1945, forbidding the pollution of water ways.

# Chapter XIX. - Malaria

Two new malaria stations were set up during the year, one at Mit Ghamr, Dakahlia Province, and another at Ashmoun, Menoufia Province. The Egyptian territory is thus covered by 39 main stations and 75 branch stations. Control measures have been carried out on the same lines outlined in last year's report.

The malaria main stations are responsible for the control of breeding places in 322,700 feddans (acres), whereas the branch stations control 181,085 feddans; the total area is thus 503,785 feddans.

### New Activities of Malaria Units:

These may be summed up in the following:

- (a) Undertaking a general microscopical examination of blood films for the whole population. This was started in July. The object is to obtain a true estimate of the incidence of malaria in every district and to detect and treat the largest possible number of malaria cases.
- (b) The substitution of clay balls soaked in 5 per cent DDT in malariol for plaster balls in the control of rice cultivations lying within half a kilometre from cities.
- (c) The substitution of a 5 per cent DDT suspension for DDT in kerosene in the spraying of public health units, etc.
- (d) Malaria warnings and contraventions concerning defective water systems of houses served by malaria stations and public health effices will henceforth be approved by the local public health inspectors. The malaria section will only be notified of judgments to arrange for their execution.

# Results of blood film examination:

A total of 135,400 blood films collected from patients attending the various public health units and during the general survey were microscopically examined. Tables Nos. 135,136 add 137 give their numbers and results for Upper and Lower Egypt and the whole of Egypt. Malaria units attached to Ancylostoma Hospitals are now 35 or 17 units more than last year (Table No. 140).

Table Na. 139 shows the incidence of filaria in 1950 according to findings of the Research Institute.

# Malaria incidence among infants under one year of age:

Table No. 141 shows the incidence of malaria among infants under one year of age in Upper and Lower Egypt in 1950 as compared with 1949. Malaria infections in this age group are considered new.

# Types of Malaria:

Table No. 142 gives the incidence of the two types of malaria (Benign and Malignant) in Lower and Upper Egypt provinces and governorates having malaria stations, and percentage of each type to total positive cases.

# Monthly distribution of Malaria:

Tables Nos. 143 and 144 give the monthly distribution of the various types of malaria in Lower and Upper Egypt.

# Malaria Incidence in Governorates and Provinces:

Table No. 145 gives the number of malaria cases and deaths reported to the Statistical Department from governorates and provinces during 1949 and 1950.

## Survey of Mosquito Breeding Places:

Mosquito breeding places were surveyed on the same lines as in previous years. Priority of disposal of breeding places is governed by malaria incidence. Breeding places are reported to the Ministry of Rural Affairs and other competent departments for disposal. Tables Nos. 146, 147 and 148 give the results of larvae survey carried out by malaria units. Distribution of larvae species is given in table No. 146 according to provinces and in tables Nos. 147 and 148 according to birkas in Lower and Upper Egypt. It will be observed that the predominant species is the A. pharoensis, the malaria carrier.

### Malaria Control Activities:

Various modern control methods were employed. Table No. 149 gives the types, quantities and totals of insecticides used and areas controlled in Lower and Upper Egypt.

## Warnings and Contraventions:

Besides the control work referred to above, malaria units served warnings and contraventions under malaria Law No. 1 of 1926 modified by Law No. 78 of 1946. Table No. 150 gives their distribution according to Lower and Upper Egypt.

### Treatment and Drugs:

Treatment was given to patients returned positive for malaria by microscopic examination. The same course of treatment was given as in previous years. Table No. 151 gives quantities of the various drugs distributed by malaria units in Lower and Upper Egypt.

## Application of Malaria Law:

No Ministerial arrêtés were issued during the year in connection with malaria Law No. 1 of 1926 modified by Law No. 78 of 1946.

### Control of mosquitoes and flies in public health units:

A 5 per cent DDT and kerosene solution and 50 per cent DDT suspension were used for spraying hospitals and other public health units for the control of mosquitoes and flies. Table No. 152 gives details of hospitals and public health units sprayed, number of rooms in each and quantities of insecticides used in Lower and Upper Egypt.

### Propaganda:

As in previous years, propaganda activities were conducted in conjunction with units of the health education and social services.

#### Complaints:

All complaints are dealt with and causes removed when possible.

## The Principal Malaria Laboratory:

This laboratory undertakes the examination of such surplus blood films and samples of larvae and adult mosquitoes collected by the various units as can not be dealt with by the laboratory assistant of the unit, as well as samples collected by Cairo mosquito branch. Of a total of 17,276 blood films examined during this year, 235 were returned positive for malaria (158 benign and 77 malignant).

# A total of 2,016 samples of larvae and adult mosquitoes were identified as follows:

An. Paar.	An. Mult.	An. Serg.	An. Maur.	Culex Pipiens.	Culex Perix.	Theob.	An Casp.	Cul <sub>0</sub> x Laur.	An. Latin.	An. Gambia	Total
01	382	8	161	319	313	9	19	2	7	5	2,019

This laboratory is under the supervision of an agricultural engineer who attended a malaria course at Ein Shams mosquito research station. He is assisted by three laboratory assistants. It may be of interest to mention that the first sample of mosquito larvea identified as A. gambia was identified by the laboratory on September 21, 1950. It was sent from Abu Sombol, Nubia.

## Cairo Anti Mosquito Service:

This was conducted on the same lines as in previous years. The number of darakat (zones) was increased from 97 to 113, distributed over eleven areas. A count made of the houses in those sectors showed that of a total of 116,789 houses 30,979 were connected with the drainage system and 85,810 or 73 per cent drained in covered cesspits.

The work of the Cairo Anti Mosquito Service may be summed up as follows:

## 1.—Mosquito Control in habitations:

All houses draining in covered cesspits were sprayed with a DDT and malariol solution.

On July 30, 1950, houses in Maadi were sprayed with the DDT suspension prepared by Socony Vacuum Co. This was not so effective on the adult mosquito and therefore stopped as from November 2, 1950.

Some 311 complaints against mosquitoes in houses were received and dealt with.

### 2.—Malaria Control in Agricutural Areas:

Malaria gangs surveyed all water courses within their darakat for larvae. Malaria overseers sprayed breeding places with a 5 per cent DDT and Malariol solution, paris green or plaster balls soaked in DDT. State drains were cleared of weeds.

### 3.—Sanitary Systems of Houses:

Mosquito surveyers under sanitary technicians examined houses for defective water systems. Warnings were served on owners of houses for repairing their systems. Failure will entail prosecution and order given by the court to carry these repairs and costs debited to owners.

Of 2,928 malaria warnings served, 742 were fulfilled, 2065 were prosecuted and 121 are pending. It is worthy of mention that this year's high Nile flood caused the overflow of seepage water in 141 basements, 53 feddans of agricultural land, two burrow pits and an underground shelter. All cases were dealt with.

#### Malaria Incidence:

According to reports from Cairo City Health Department, a total of 509 new malaria cases were notified as against 607 in last year.

Here below are given the quantities of insecticides used during the year.

Table No. 132

	Tons	Kgms	Gms	No.
Malariol	99	485	500	
Cooking gas oil	25	250	Marine Marine	
DDT Emulsiens		10		
Paris Green	g	1	450	
DDT in Kerosene		384		Man a standard
DDT Balls			Approxima	81
		1		

The survey work of the Cairo anti mosquito service showed that the total number of the different species of larvæ amounted to 216, out of which 60 were A. pharoensis. One A. multicolor, 143 Culex pipiens, 2 C. persagesus, one A. Aegypti and 9 Aedes caspius.

The strength of the service is 4 supervisors, 13 controllers, 2 surveyors, 121 overseers, one foreman and 387 labourers under a medical officer. Clerical work is done by a clerk assisted by a few overseers.

Credit grants amounted to L.E. 39,000 as against L.E. 41,000 in the previous year. Actual expenditures amounted to L.E. 29,108.860.

# Sanitary Engineering Service:

This service undertook the repair of sanitary systems of 83 houses in Cairo City the subject of final judgments under Law No. 1 of 1926 modified by Law No. 78 of 1946. The cost of the repairs amounted to L.E. 2,532 and were debited to the L.E. 3,000 allocated for the purpose.

The repairs were carried out under the supervision of three sanitary engineers assisted by three draughtsmen.

### FAYOUM CAMPAIGN 1950

# I.—Spray Painting:

During the period from January 1 until the end of September 1950, 32 darakat (zones) were spray painted. One of these darakat existed within Fayoum area, 13 within Sennouris area and 18 within Itsa area. These involved 348 villages and Ezbas having 27,039 houses with 134,325 rooms. A total of 1,440.650 Kgs of 5 per cent DDT suspension was used for the purpose. As from October 1,1950, the campaign force was engaged in the gambiae campaign in Aswan. The relative increase in consumption is attributed to difficulty of mixing the B type of DDT suspension with water. This blocked the sprayers and re-painting had to be done with the "C" type which is easier to mix and use.

# II.—Mosquito Survey Before Spray-Painting:

Of a total of 30,664 houses surveyed before spray painting in 366 darakat during the period from January until the end of September 1950, 2,301 houses harboured mosquitoes or a ratio of 7.5 per cent positive as against 8 per cent in the previous year.

# III.—Mosquito Survey after Spray Painting:

Of 19,005 houses surveyed in 195 darakat after spray painting during the same period 216 houses were positive or the ratio of contamination fell to 1.5 per cent as against 6 per cent in the previous year.

# IV.—Larvae Survey and Control:

Larvae control was carried out around Fayoum, Sennouris and Abshaway towns since spray painting was difficult owing to the large size of these towns. The larvicide used was a 5 per cent DDT in Malariol with the exception of a few darakat in Abshaway town where 1 per cent Paris Green in dust was used during January only.

Of 113,375 units surveyed, 564 were positive or a ratio of larvæ contamination of 0.4 per cent for the province as against 1.1 per cent in the previous year.

V.—Of 8,437 blood films collected during a general survey carried out between July 1, and end of December 1950, 20 new malaria infections and 5 relapses were detected or ratio of 0.29 per cent.

Among attendances at the malaria treatment units, 5.7 per cent were positive for malaria as against 11.8 per cent in the previous year.

# VI.—Personnel and Expenditures:

The personnel engaged in the Fayoum malaria campaign comprised 95 overseers, 136 labourers, 2 supervisors, 10 controllers, 4 clerks, a storekeeper, a draughtsman, an orthographer, two laboratory assistants, 3 mechanics, an assistant mechanic, a tinker, 4 motor car drivers, an orderly and a messanger under an engineer for supervising field and office work.

Expenditures amounted to L.E. 29,281.637 of which L.E. 11,202.168 were expended on larvicides and L.E. 18,079.459 on wages and other petty expenses e.g. rents, telegraphs, repairs etc.

VII.—The Campaign has met with some difficulties, namely:

## (a) Means of Transport:

The transport of personnel to sites of operation was the first difficulty encountered. The campaign was in need of seven vehicles. Only three were available and these ofter went out of order and work in distant places had to be stopped.

(b) Most of the sprayers in use were of the agricultural type and these have been in constant see for over four years, not taking into account the time they had been in use in the Ministry of Agriculture. Thus only one fourth of the number of sprayers was serviceable and this required repeated repairs and spare parts, all of which hindered progress. A great deficiency was felt in other equipment e.g. funnels, buckets, strainers, etc.

The Section anticipates remedying this state of affairs within limits of next year's available credits.

Table No. 133-Control Work by Sanitary Air Squadron Continued during 1950 as indicated below;-

Date	θ		J. O. N.					Benzine		D.D.T.	in	1	Total expenses:	Average cost
Beginning work	Terminating work	District	sprayings	Hour	Min.	Hour	Min.	in Gallons	Gallons li	Veisicol 20% in Gallons i	Cooking gas 15% in Gallons	Area sprayed in acres		spraying one acre onco Mill.
7- 1	14- 5	5 Fayoum Auberg	10	64	ಅವಿ	14	44	1,704	26	1,780	1	24,686	1,781.418	722
2-3	7 - 3	3 Zamalek, Gezira, Cairo	4	ಣ	အင္		28	128	က	179	1	2,504	170.443	89
18-3	22- 3	3 Dekheila Aerodrome	70	ಣ	40		30	134	30.00	179		2,460	171.855	869
29-3	29-3	3 Ballah Aerodrome(Canal Zone)	П	H	20		20	99	П	40		260	46.249	825
4-5	4-5	5 Kubba Palace Area	П		10	-	26	30	г	53	l	728	50.733	969
4- 5	4	5 Inshas Palace	П	П	<u>2</u> 1 .	-	26	40	H	53		728	50.937	669
11-5		11- 5 Heliopolis Aerodrome	Н		20	l	<b>1</b> C	15	1	10	-	140	11.060	7.9
17-6		10-10 Ras-El-Tin Palace		30	1	<u></u>	52	913	14	1,168	1	16,546	1,125.930	89
20- 6		29-7 Kafr el Sheikh	G1	44	. 15	00	24	1,113	19.5	995	-	14,132	1,030.403	729
10- 6		30- 7 Dessouk	4	28	32	ರಾ.	IŠ	845	11.5	15	403	15,532	315.660	203
25- 7	11-1(	11-10 Montazah Palace	1	20	13	7	45	730	12	917	-	12,978	887.044	683
29-10		10-12 Zamalek, Gezira, Cairo	00	6	20	ಸ್ತ	13	414	9	622	i	8,776	584.318	065
5-11		7-11 Faycum Auberg	r	4	10	ı	46	416	73	91		1,288	103.338	803
		Total	,	613	60	09	<b>**</b>	6,289	10.00	6,162		101,658	6.32%,388	983

Table No. 134—Results of Larvae Survey in Dessour locality from 19/6/1950 to 3/8/1950 & Kafr-El-Sheikh locality (From 19/6/1950 to 6/8/1950)

Area	Div	visions	of s	roa		]	Before Sprayin	S		After Spraying	
Aloa		151011	5 01 4			No.of units surveyed	No. Positive	Rate per cent	No. of units Surveyed	No. of units positive	Rate per cent
	Dess	ouk	loca	ality			,				
A	Section	1,	2,	3		<b>3</b> 15	155	49.5	2,887	1,250	43.3
В	,,	4,	5,	6,	7	931	<b>2</b> 28	24.47	11,081	1,138	10.26
C	,,	8,	9,	10		75	34	45.3	1,055	509	48.2
	Kafr	-El- local		ikh				•	,		
A	Section	1,	3,	5		<b>35</b> 2	21	5.9	1,320	74	5.6
В	,,	2,	4,	6,	8	546	38	6.95	1,521	96	6.4
C	<b>,,</b>	7,	9,	10		397	39	9.8	1,204	103	8.5

Credits of this Section, during the fiscal year 1950-1951, amounted to L.E. 120,000 The execution of sanitary measures in certain houses was L.E. 3,000. Cairo Anti malarial campaign was L.E. 39,000.

The actual expenditures during the year were as follows:—	L.E. Mills
(a) General Control	74,631.370
(b) Fayoum Campaign	12,181.270
(c) Control by Aircraft	9,065.423
(d) Cairo Anti malarial campaign	29,108.860
(e) Execution of Sanitary Measures in certain houses of Cairo.	2,692.315
Total	127,679.238
Administrative Service and Malaria Units	40,582.110
Total	168,261.348

N.B.—High cost of living bonus is excluded.

Table No. 135.—Distribution of Blood films Examined for Lower Egypt and Canal and Suez Governorates during 1950

Category	No of		Positive		Det
	Specimens	New	Relapses	TOTAL	Rate par cent
A. Attendance at malaria units and ancylostoma hospitals  B. General Survey	5,584 81,109	49 689	597 1,170	646 1,859	11·5 2.2

TABLE NO. 136.—DISTRIBUTION OF BLOOD FILMS EXAMINED FOR UPPER EGYPT AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 1950

Category	No of		Positive		Doto
- Carogory	Specimens	New	Relapses	TOTAL	Rate per cent
A. Attendance at malaria units					
and ancylostoma hospitals	3,500		585	585	16.7
B. General Survey	45,207	72	718	790	1.7

Table No. 137.—distribution of blood films examined for malaria in Egypt during 1950

Category	No of		Positive		Pote mer cont
	Specimans	New	Relapses	TOTAL	Rate per cent
A. Attendance at malaria units and ancylostoma hospitals  B. General Survey	9,084 126,316	49 761	1,182 1'888	1,231 2,649	13.55

TABLE No. 138. -NUMBER OF SPECIMENS EXAMINED FOR MALARIA BY RESEARCH INSTITUTE DURING 1950

Category	No. of Blood	Po	ositive Mala	ria	Total	Rate per
	specimens	Benign	Malignant	Mixed infection	positive	cent
Specimens from Malaria Stations &Out-Pos	ts 6,989	6	1	_	7	0.1
Specimens from Hospitals	219	46	18		64	28.7
" Ancylostoma units	298	24	4	. —	28	9.4
Total	7,506	76	23		99	1.3

Table No. 139. - distribution of blood films examined for filariasis by Research Institute during 1950

Province or Governorate	I.ocality	1	No. of Specimens	Positive Filaria	Rate Per cent	Remarks
Qena{	Qena Nag Hammadi	• • •	969			
Minia	Minia	•••	208	-		
Beni Suef	Beni Suef	•••	30		_	productions
Sharkia	Abu-Kebir	•••	116	14	12.0	
Qaliubia	Qaliub	•••	1		_	-
Fouadia	Kafr El Sheikh	• • •	81		_	man mg
Cairo	Research Institute	•••	30	13	43.3	and the same of th
Giza	Filariasis at Pyramids	•••	22,503	457	2.0	St. Pallacong
Canal	Ismailia		147	_	None and	Liverage
	Total		24,131	484	2.0	political

Table No. 140.—Malaria Units attached to Ancylostoma Hospitals and Patients attending for their blood-examination during 1950 and Positive results.

Y appliture of Timi	4	·	No.	T) '4'	Rate	, B.	r.	Mal.	T	Q. M.	
Locality of Uni			Examined	Positives	%	New Cases	Relaps.	New Cases	Relaps.	New Cases	Relaps.
Ismailia Suez	•••	• • •	361 859	76 4	21.05	56	20			_	_
Kafr El Dawar Damanhour Fowa	• •••	•••	1,873 1,875 2,290	29 78 1,184	1.5 $4.16$ $51.7$	11 34 1	$ \begin{array}{c c} 16 \\ 27 \\ 435 \end{array} $	12	2 5 748	_	_
Kafr El Sheikh Dessouk	• •••		3,180 3,132	1,592 1,828	50 58.3	86 100	1,489 1,662	- <sub>1</sub>	17 65		_
Biala Mahalla Kobra Belkas	• •••		1,590 405 271	173 126 107	14 31.1 39.4	86 61	168 38 46		1		
Tanta Faraskour	• •••	• • •	489 2,906	43 852	$\begin{array}{c} 8.7 \\ 29.3 \end{array}$	5 817	30 28		8 2		_
Dekernis	• •••	• • •	961	343 312 16	$ \begin{array}{c c} 15.9 \\ 32.5 \\ 2.4 \end{array} $	$\begin{bmatrix} 17 \\ 276 \\ 11 \end{bmatrix}$	322 36 5		4		
Mit Ghamr Aga	• •••	• • •	1,455	175 48	8 7.3	43	175	5	_	_	_
Shebin El Kom Ashmoun Abu Kebir	• •••		2,263	100 7 1,398	7 0.3 36.8	- 2 730	98 5 556	31	2 81		_
Belbeis Zagazig	• • •	• ••	2,503	539 284	21.1	31 36	419 223	1 —	88 25		
Fakous		• ••	4,328	119 1,522 88	22.5 35.1 11.3	91 1 3	1,152 38	2	369 46		
Benha Fayoum	• ••	• • •	689 551	82 46	11.9	11 15	66 28	-1	5 2	_	_
Abshaway Beni Suef Minia		• ••	678	194 58 295	5.3 8.5 29.8	5 19 227	178 16 63	1 3	10 23 2		_
Assiut Souhag	•• ••	• ••	. 153 183	38 12	24.8 6.55	34 3	4 9		gas		_
Nag Hammadi Qena Aswan	• •		3,126	30	2.55	5	39 22	_	Name and Address		8
Тота	L		F1 904	11,872	23.05	2,822	7,436	67	1,509		8

TABLE NO. 141—MALARIA INCIDENCE AMONG INFANTS UNDER ONE YEAR OF AGE IN LOWER AND UPPER EGYPT, 1949 AND 1950

			1950		1949			
Province or Governorate	Name of Station	No. of Children examined for Malaria	Positive	Rate per cent	No. of Children examined for Malaria	Positive	Rate per cent	
					•			
Behera	A   Idku       Kafr El Dawar	210		20 60	80 <b>60</b>	_ 1	1.2	
Gharbia	Biala Mehalla Kobra Belkas	49 40 —	19 11 —	39·3 27 —	14 9 20	$-\frac{2}{1}$	18·1 — 5	
Dakahlia	Dekernis	56	35	62.6	_	t-cad	- toad	
Canal	Suez	216	_		$\begin{array}{c} 371 \\ 2 \end{array}$		Commany)	
Sharkia	Belbeis Abu Kebir Inshas Zagazig	3,114 422 19	1,149 119 8	37 28·1 42 —	13 — — — —	- 4 - 1	30.7	
	. Ashmoun		_	_	115	1	0.9	
Qaliubia	·	100			8	1	12.5	
Giza	. Giza	3		_	·,		—	
Fayoum	$\cdot \left\{ egin{array}{lll} { m Fayoum} & \dots & \dots & \dots \\ { m Abshaway} & \dots & \dots & \dots \end{array} \right.$	610	— 114	18.6	$ _{72}$		4.1	
Qena	. Qena	2	2	100		********	_	
Aswan	. Aswan	1	1	100	-		_	
Kharga Oases	. Kharga Oases	45			67	_		
ž.	GRAND TOTAL	4,891	1,510	30.8	978	14	1.4	

Table No. 142.— Distribution of Malaria Cases According to Types during 1950

r Egypt and Canal Governorates    10tal of Specimens   Specimens	Total of positive cases	Rate per cent									
Egypt and Canal Governorates			No.	New	Relap.	Rate per cent	No.	New	Relap.	Rate per cent	
Desert	•								•		
	228 85 671 149 105 399 704 37	2.36 1.82 4.71 2.07 1.13 3.03 4.16 0.69 1.87	227 35 639 148 101 399 623 37 75	194 — 46 136 — 189 2 17	33 35 35 101 298 434 35 58	99.5 41.17 95.23 99.5 95.23 100 88.43 100 59.05	1 50 32 1 1 81 - 52	1 17 17 15 18	49 15 - 34 34	0.5 58.83 4.77 0.5 2.85  11.57 	Ť
TOTAL 86,693	2,505	<b>2.88</b>	2,284	685	1,599	21.16	320	î.		<b>1</b> €.9	<b>00</b>
Upper Egypt and the Southern Desert Governorate	-										
Southern Desert       5,344         Giza       7,162         Fayoum       8,352         Beni Suef       4,133         Minia       1,863         Assiut       3,674         Gerga       2,186         Qena       3,761         Aswan       3,761	53 1038 26 41 49 7 7 159	$ \begin{array}{c} 1\\ 14.4\\ 0.31\\ 0.99\\ 2.0\\ 0.19\\ 0.09\\ 1.3\\\\\\\\\\\\\\\\\\\\ -$	53 905 23 20 43 7 7 159	10 18 19 114	43 905 5 11 29 7 7 159	100 87 88 48.8 100 100 100	133 133 - 6 - 6	13 13 13	133	13 12 51.2 13 —	
TOTAL 48,707	1,375	& &	1,212	10	1,161	88.1	163	21	142	6.11	

TABLE NO. 143-MONTHLY DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN LOWER EGYPT THE CANAL, AND WESTERN

	e e	remark													
		%	1	1	1			1	1	0.006				1	100.0
	Quartan Malaria	Relapses	1	1	1						1		1	ı	-
	Quartai	New	1			1	1		1		1.				
		No.	1	1	1				1		1			l	
1950	Malignant Tertian	%	5.8	5.0			1	1	0.04	0.1	0.1	0.04	0.04	0.05	0.03
DURING 1		Relapses	13	1	İ	1	1	1	က	6	17	46	52	26	167
,		New		1		1	I	1		12	4	15	12	10	7.0
GOVERNORATES		No.	13	1	1	1	1	I	က	21	21	19	64	36	220
		%	5.4	11.1	3.8	5.5	2.1	2.4	3.2	3.3	2.5	2.7	2.1	1.4	3.6
DESERT	Tertian	Relapses	19	48	43	53	22	20	171	366	232	294	209	122	1,599
	Benign	New	9	Н	1	H	70	ಣ	61	196	113	113	102	84	685
		No.	25	49	43	51	27	23	232	292	345	407	311	206	2,284
	Rate	%	8.2	11.3	3.8	5.5	2.1	2.3	3.2	3.4	2.7	3.2	2.2	1.8	es 00
	Total of	Positive Cases	38	20	43	54	27	23	235	584	366	468	375	242	2,505
	Total of	mens	462	439	1,098	1,034	1,282	955	7,233	16,646	13,598	14,884	14,622	14,440	86,693
			:	:	:	:	:	;	:	;	:	:	:	:	
			:	:	:	:	•	:	:	:	i	:	:	:	
			:	:		•	•	•	:	•	:	•	:	:	Total
	M. C. L. L.	Топоп		:								:		•	I
		4	•	:		:				;	ег		er	. Ie	
			January	February	March	April	May	June	July	August	September	October	November	December	

LAKIN NO. 144.- MONTHLY DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN UPPER EGYPT AND FRONTIER

REMARKS 0.3 0.2 8.0 9.0 0.5 0.3 0.5 0.4 0.1 0.1 0.1 0.1 % 39 142 3 ಣ 4 14 8 64 4 MALIGNANT TERTIAN Relaptes 2 9  $\infty$ 4 21 New .18 99 45 12 8 9 0 163 No. 2.5 ₩. 1.8 \$. \$2 1.9 9.1 4 0  $\infty$ 4 1 9 3 10. 4 Ö 67 3 07 ्रं % GOVERNORATES DURING 1950 ---186 257 129 188 122 1,161 6  $\infty$ 13 24 64 50 Relapses BENIGN TERTIAN 14 14 3 00 9 MO. New 1,212 136 1961 136 56 186 13 24 99 271 6  $\infty$ 111 No. 2.6 2,2 300 7.7 2.8 1.3 2.08 5.4 11.0 4.7 1.0 2.3 % 145 262 1,375 14 289 89 G 25 99 114 12 190 181 Total of Positive Cases 673 1,076 1,206 3,994 11,058 6,504 7,745 7,434 Total of Specimens 905 6,598 48,707 483 1,031 : : • : : : : TOTAL ... : : • : Months September ... February... October ... August ... January ... March ... November December June July April

Table No. 145.— Number of Malaria Cases and Deaths notified during the Years 1949 and 1950

		-	Rel	Relapses						
Province or Governorate	19	49		1950	Dif	ference	19	50		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths		
Cairo	607	3	509	4	- 98	+ 1	34	8		
Alexandria	204	1	91	1	113		et a proprieta			
Other Governorates	201	3	307	-	+106	- 3	10	6		
Behera Province	30	Sections	188	3	+158	+ 3		.7		
Dakahlia ,,	107	1	271	1	+164		6	7		
Gharbia ,,	5 <b>75</b>	3	129	1	-446	_ 2	599	_		
Fouadia ,,	· —	Minus no.	182	1				1,291		
Menoufia ,,	87		26	3	— 61	+ 3	36	84		
Sharkia ,,	110	1	935	_	+825	- 1	16	31		
Qaliubia ,,	<b>2</b> 30	1	418		+188	_ 1	16	<b>3</b> 3		
Gîza ", …	250	3	254	1	+ 4	- 2		1		
Fayoum ,,	82	-	60		— 22	_	611	154		
Beni-Suef "	50	_	<b>2</b> 39		+189	garrieth	6	1		
Minia .,	229	-	515		+286		18	5		
Assiut ,,	32		71		+ 39	-	_	1		
Gerga ,,	7	_	12	Management	+ 5		_	_		
Qena ,,	13	1	48	_	+ 35	_ 1	25	16		
Aswan .,	4		_		4		15	_		
	photosian in the language.									
TOTAL	2,818	17	4,255	15	+1,437	- 2	1,312	1,645		

TABLE NO. 146.—DISTRIBUTION OF ANOPHELES LARVAE EXAMINED BY PRINCIPAL STATIONS IN LOWER AND UPPER EGYPT DURING 1950

		Anopheles Species							
Province or Governorate	No of Anopheles		Anophele	s Species	1				
		Pharoen	Mult	Sergenti	Mauri.				
Canel	364	236		3	125				
Baharia Oases	53	4	45	4	_				
Behera	232	232		<b></b>					
Fouadia	1801	1760	3	1.	37				
Gharbia	215	208	1	1	5				
Dakahlia	220	214			(				
Menoufia	40	39	1	_	-				
Sharkia	338	323	1	1	13				
Qaliubia	46	44	1		1				
Total: Lower Egypt	3,309	3,060	52	10	187				
Giza	54	54			_				
Beni Suef	81	80	- "	_	1				
Minia	. 480	480			resoluti				
Assiut	`111	111	-						
Gerga	205	205							
Qena	254	252	1	-	1				
Aswan	60	51	8	-	1				
Southern Desert	156	142	14	-					
Total: Upper Egypt	1,401	1,375	23		3				

TABLE NO. 147 .- NUMBER OF VILLAGES SURVEYED AND BIRKAS FOUND HARBOURING LARVAE OF ANOPHELES, AND CULEX PIPIENS IN LOWER EGYPT AND CANAL GOVERNORATES DURING THE YEAR 1950

1									
Pipiens	Rate %	46	93		1 1	100	86	23	\$
Culex	No.	19	28	1	11	53	18	18	126
pecies	Rate %	48.2		1.4	001	1111	11	7-1	25. 6 25. 6
Other S	No.	43	1	7	4 1		11	11	49
nti	Rate %	11	1		11		1.1		
Serge	No.	1 [	1	1	11.	1111	11	1	
color	Rate %	÷ 1	7	i					e e e
Multic	No.	es	<b>C</b> 3		11	1111	11	11	10
	Rate %	48.2		89.5	1 00	0110	9.9	15	39.2
Pha	No.	43	ı	17	1 %	-     e	1 2 1	ကက	92
P.	Rate %	8.86	43	46	8 09	14 12  3·6	33.3	9	90
Larve	No.	68	30	19	<b>⊸</b> ന	12   6	15	30	161
No. of Birkas	xamined	90	70	41	49	16	21 6	31	496
		9	<b>—</b>	6	17	70 cc ⊢ cc	10	3	100 000
	02	: :	:	:			::	::	:
			:	:	: :	: : : :			.*
			:						
					• •				Total
ion									I
Stat									
aria									
Ma]									,
			tron		Zobr		om		
			l Na	onr	e-1	H 8 3	el B n		
		Ismailia Suez		Damanh	Mehalla Tant <b>a</b>	Farasko Dekernis Mit Gha Mansour	Shebin Ashmou	Belbeis Zagazig	
ate		~~	:	:	~~		~~	~	
ernor		•	:	:	:	:	:	:	
Gov		•	ases	:	:	*	:	:	
Province or		Canal	aharia O	Behera	Gharbia	Dakahlia	Menoufia	Sharkia	
	No. of Larvae Phar. Multicolor Sergenti	Malaria Station  Malaria Station  Malaria Station  Mo. of No. of No. of Surveyed Surveyed Surveyed Surveyed No. of	Covernorate   Malaria Station   No. of   No. of   Surveyed   Sur	Governorate   Madaria Station   No. of surveyed   No. of surveye	Table   Malaria Station   No. of No. of Surveyed   No. of Suzamined	Suez   Malaria Station   No. of Surveyed   Dirkas   Dir	Suez	Shebin el Kom   Malaria Station   Nicord   Nic	Shebin el Kohra   Malaria Station   Malaria Malaria Station   Malaria Malaria Malaria   Malaria   Malaria Malaria   Malaria Malaria   Malaria Malaria   Malaria   Malaria Malaria   Malaria   Malaria Malaria   Malaria

TABLE NO. 148.—No. OF VILLAGES SURVEYED AND BIRKAS FOUND HARBOURING LARVAE OF ANOPHELES, AND CULEX PIPIENS IN UPPER EGYPT AND FRONTIER GOVERNORATES DUBING THE YEAR 1950

alaria Shation         Virgo San San San San San Shation         Virgo San San San San San San San San San San						lages		be	Positive	92		Bii	rkas Ha	bouring	Anophel	Birkas Harbouring Anopheles Larvae	80		Howl	Birkas
		Mala	ria Statio	g		liV 10		aimsx	For Lar	Тав	Pharoen	ısis.	Multic	olor.	Serg	genti	Other	Other Species	Culex	Culex Pipiens
						.oN	- 1	tə	No.		No.	%	No.	%	No.	%	No.	%	No.	%
	Giza	:		:	:				71	61	27	38	1	1	1	!		1	71	100
	Beni Suel	Suef		:	:		<del></del>	6	1	1		1	1	1	1	1	1	1	1	-
TOTAL 74 13 120 16.3 76 63.3	Assiut	:	:	:	:		•		36	57		100	1	1		1		,		1
TOTAL 6 530	Qena	:		:						001		100	1		1	1	1	1	13	100
74 734 120 16.3 76 63.3	Luxor Mataana	: ;		: :				<u>့</u>		i		11			1 1		1 1		1 1	
74 734 120 16.3 76 63.3																				
			To	LAL		50				65		63			k e	1	i		& &	02

Table No. 149. —Quantities of Different Larvicides Consumed in Malaria control during 1950 in Lower and Upper Egypt together with Areas treated

	Province or	LOWER AND UP.			ities Consume		
District	Governorate	Station	DDT with Malariol. Kgs.	Pure D.D.T, Kilograms	Paris Green Kgs.	Water SuspensionK.	Controlled Area in sq m.
	Canal }	Suez	16,124.254 5,172.000	271.000 70.750	Universaled Opposition	Sing comp	37,604,375 9,453,729
	Western Desert $\left\{ \begin{array}{c} \end{array} \right\}$	Wadi el Natroun Siwa Baharia Oases	221.562  1,686.95 <b>2</b>	104 250	137.700 —	_	425,069 1,351,704 3,373,904
	Behera	Idku Kafr el Dawar Damanhour	5,200.400 3,710.750 7,012.500	$\frac{-}{22.000}$ $141.530$	7.600		11,972,049 4,486,929 8,482,681
	Fouadia {	Fowa Kafr El Sheikh Dessouk	5,680.500 3,158.500 5,642.072	- 1.950 9.479	83.480 —		9.832,939 5,917,191 129,43 <b>3</b> ,759
Lower Egypt	Gharbia	Biala Mehalla Kobra Belkas	4,800.000 4,699.600 1,770.500	184.200	78.618 4.000 4.300	conditional and the second	7,439,970 10,134.054 3,326,821
Swer Egyro	Dakahlia (	Tanta  Faraskour Dekernis Mansoura	7,812.000 3,900.000 4,373.280 6,730.500	876.000	377.908 —		13,112,589 9,544,240 4,405,170 12,789,118
		Mansoura Mit Ghamr Shebin El Kom	3,035.000		— 105. <b>7</b> 76	**************************************	4,031, <b>329</b> 12,111,728
5 0	Menoufia }	Ashmoun Abu Kebir	2,731.000 9,178.000		<u>-</u>		3,081,135 8,902,947
	Sharkia	Belbeis & Zagazig	8,552.000 7,299.500		_		12.746,636 13,425,599
	Qaliubia }	Toukh Qaliub	6,280.800 6,031.090		276.950		8,625,530 11,011,207
		TOTAL	134,602.670	1,509.359	1,076.322		357,022,402
	Giza	Giza ···	<b>16,108.00</b> 0	24,759.700	and the second		14,770,000
	Beni Suef	Beni Suef	10,439.000	78.950		136	25,395,291
	Minia	Minia ···	18,609.521	72.000	3 <b>2</b> .6 <b>0</b> 0	graystraphy	34,135,910
	Assiut	Assiut ···	2,103.566	65.000	404.100	248	4,370,241
	Gerga	Gorga	494.000	11.865	585.070	19	4,975,565
Upp or Egypt	Qena	Nag Hamadi Qena Luxor Mataana	1.4.000 107	36.874 32.932	23.750	****	6,716,191 4.263,749 6,578,389 6,694.221
	Aswan }	Kom Ombo	3,944.023		506.431 8.830	)	8,443,378 3,556,598
	Frontier Govte	1771	570.000 3,546.000		1,097,850		4,512,953 9,666,000
	TOTAL T	JPPER EGYPT;	72,455.339	25,370.821	2,972.943	485	134,078,486
		OWER EGYPT;	134602.670	1,509.359	1.076.32		357,022,402
		RAND TOTAL;	207,058.009	26,880.180	4,049.26	485	491,100,888

Table No. 150— Number of Warnings and p.vs of Contravention served out by Malaria units and their branches in Upper and lower Egypt, the Canal zone and Frontier Districts during 1950

Province or Governorate	Unit		w pits	Filling coverin disused or Saki Aboli pun	g over l wells as and shing		ring ns or kas	Pone	ring ds or	Prohi of Ric Sugar Cultiv	e and	of or c	eovering
70		Ws.	P.Vs	Ws.	P.Vs	Ws.	P.Vs	Ws:	P.Vs	Ws.	P.Vs	Ws.	P.Vs.
Canal { Western Desert	Ismailia Suez W. El Natroun	1 9	1			121 3			-				
Charbia	Damanheur Mehalla Kobra Tanta	17		2	_ 2	- -		_		- B	166 13 2		
at 14 17 -	Dekernis	_				9	_	_	-			- Control on the Cont	_
Menoufia	Shebin Dl Kom			24	1		_			_		_	-
	Belbeis Zagazig	21		12 9	_	1	_	_	;	5	5 	_	_
TOTAL LO	OWER EGYPT	49	1	49	2	136	28			5	186		_
Gîza	Gîza	1		11	3	_		_		_	_	_	-
Fayoum	Fayoun		-	-	<del>-</del>	_	-				11	_	_
	Beni Suef	16	3	4	2		-					50	. 19
10.1	Assiut	3	3	16	16								
	Qena Luxòr	1	-	3	-		_	14	_			-	-
TOTAL UE	PER EGYPT	21	9	34	21		-	_	_	-	¥¥	50	19
GRAND To	DTAL :	70	10	83	23	136	28	-	-	5	197	50	19

-- 11 1 2 1

TABLE No. 151—QUANTITIES OF DIFFERENT DRUGS ADMINISTERED FOR TREATEMENT OF POSITIVE CASES IN LOWER AND UPPER EGYPT DURING 1950.

Trial of Day	Administered	d in Tablets	
. Kind of Drug	Lower Egypt	Upper Egypt	Grand Total
Quinine 5 Grs	13,163	1,700	14,862
,, 2 ,,	18,231	2,020	20,251
" chocolate	6,685	11,566	18,251
Atebrin ···	119,963	182,548	302,511
Plasmochin Comp, 1 cm	2,432	844	3,276
Plasmochin ½ cm	990	3,694	4,684
Blaud's Pills	72,620	16,749	89,639

TABLE No. 152—Hospitals and Health Units etc, and No. of Rooms Spray-Printed with insecticide by Malaria Stations in Egypt During 1950.

Station	No. of Hospitals and Health Units etc	No. of Rooms	Insecticide Employed	Quantities consumed (Kilo Grs.)
Ismailia	6	62	D.D.T. Kerosene Water suspension	
Suez  Damanhour  Kafr El Sheikh  Dessouk  Biala  Faraskour  Dekernis  Mansoura  Mit Ghamr  Shebin El Kom  Belbeis  Zagazig  Suez  Su	5 11 17 4 9 32 25 18 9 7 1	420 350 99 95 81 546 301 929 105 80 67 90 19,458	99 99 99 99 99 99 99 99 99 99 99 99	1,759.500 3,153.000 711.000 330.000 52.000 4,288.000 1,260.000 366.000 136.000 832.000 185.000 237.000 4,947.000
Toukh	164	22,827	, , , , , , , , , , , , , , , , , , ,	18,963.500
Beni Suef	18 23 31 12 6 17 9 5	1,780 209 20 481 276 175 330	99 99 99 99 99 99 99	1,467.000 9,990.000 248.000 1,773.000 108.000 2,268.000 882.000 756.000 1,390.000
TOTAL UPPER EGYPT	. 142	3,914	,: 99 ,	18,882.000
GRAND TOTAL	306	26,741	>>	37,845.500

Table No. 153.—Showing General expenditures of principal stations and sub-stations in Lower Egypt during 1950 (exclusive of cost of transport and their appurtenances).

				Insecti	cides co	nsumed a	nd their	relative	prices	
Name of Station		Administrative expenses	D.D.T	ol with	Pure	D.D.T.	Paris		Wettable	
		L.E. M.	Quantity  Kgrs.	L.E. M.	Quantity Kgrs.	Price	Quantity Kgrs.	L.E. M.	Quantity Kgrs.	Price
Itmaillia	• • •	2,564 . 188								
Suez		1,979 . 751								
Wadi El Natroun		284 . 635			,					
Siwa	•••	1,170 . 072								
Baharia Oases	•••	2,290 . 400								
Idku	• • •	3,629 . 249				,				
Kafr El Dawar	•••	1,891 . 633								
Damanhour	•••	1,889 • 002	,							
Fowa	•••	1,844 . 732								
Kafr El Sheikh	• • •	860 . 179	019	869	359	738	322	685		
Dessouk	•••	2,827 . 113	,602.670	,191.698	1,509.359	,086.738	,076.322	150.685	_	
Biala	•••	2,347 . 581	134	9	-	. 1	-	L.E.		
Mehalla Kobra	•••	2,077 . 577		L.E.		L.E				Б
Belkas	•••	616 . 352				10				8
Tanta	•••	2,755								
Faraskour	•••	2,647 . 588	Í							8
Dekernis	•••	2,701 . 792								
Mansoura	•••	2,048 . 751								
Mit Ghamr	•••	970 . 265		-						н
Shebin El Kom	•••	2,472 . 681								
Ashmoun	•••	1,340 . 448						}	1	
Abu-Kebir	•••	4,812 . 105							1 ,	
Belbeis & Inshas	•••	4,146 . 808								
Zagazig	•••	3,680 . 346								
Toukh	•••	5,555 . 621								
Qaliub	•••	2,180 . 736								
TOTAL	•••	357,022 . 402							,	F

N.B.—Distribution of quantities of larvicide consumed per malaria station is shown in Table No. 149.

Table No. 154—General expenditures of principal stations and sub-stations in Upper Egypt, during 1950. (exclusive of cost of transport and their appurtenances)

				Insec	ticides c	consumed	& their.	relative	prices	
Name of Station		Administrative expenses		iol with T. 5%	Pure I	). D. T.	Paris	Green	Wettabl	e powde
			Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price
		L.E. M.	Kgrs.	L.E.M.	Kgrs.	L.E.M.	Kgrs.	L.E.M.	Kgrs.	L.E.M.
Giza	•••	22,793.767								
Fayoum		1,818.356								
Abshaway	•••	823.521								
Beni Suef		2,524.866								
Minia	•••	5,720.236								
Assiut		4,324.590								
Souhag		3,245.670								
Nag Hammadi	•••	2,324.696	339	933	.821	.400	.943	212	485.000	198.365
Qena	•••	2,664.459	72,455.339	3,332.933	25,370.821	18,266.400	2,972.943	416.212	485	198
Luxor	•••	6,124.754	7	L.E.	O)	L.E.		L.B.		L.E.
Mataana	•••	3,274.969								
Kom Ombo	•••	2,708.220								
Aswan		5,570.172								
Dakhla Oasis	•••	2,629.749								
Kharga ,,		1,682.023								
Total		68,230.048								

N.B.—Distribution of quantities of larvicide consumed per malaria stations is shown in Table No. 149.

### Chapter XX.-Insects Control

The Insect Control Section comprises the following branches:

### (1) Mosquito Branch. at Ein Shams: This includes:

(a) A permanent station for conducting experiments on the different malaria control methods in the field, laboratory breeding of mosquitoes and the effect of insecticides thereon.

It has also a laboratory for the identification of mosquito species forwarded by the different stations and a team for the periodical spray-painting of aerodromes.

(b) A mobile station for applying the different mosquito control methods to the different localities.

### (2) Yellow Fever Control Branch: at Heliopolis.

This branch undertakes the control of Aedes aegypti in particular, and other mosquito species in general, within a radius of 2-3 kilometers around aerodromes and ports which receive planes or vessels coming from yellow fever infected areas.

The branch has units at: Heliopolis, Suez, Alexandria, Port Said, Luxor, Hurghada, Safaga, Quseir, Ballana and Mersa-Matrouh. The unit at Tor is operated during the pilgrim season only.

### (3) Fly Control Branch:

Carries out applied experiments in the field for the study of fly populations, binomics and the various methods of fly control. It also carries out laboratory experiments to study the effect of insecticides on the different stages of flies. Experimental stations belonging to this branch are established at:—

Gabal el Asfar, some villages near Gîza (Aboul Nomros, Konayessa, Shubramant and Talbia), some villages in Qaliubia, (Sendion), two summer resorts (Port Said and Suez).

### (4) Ectoparasites Control Branch:

It carries out different studies on human lice, fleas, bed-bugs and cockroaches. These studies comprise field and laboratory work.

### (a) Field:

Lice Control.—El Gaafra village of a population of 2,500 was chosen to determine the effect on lice of dusting with 10 per cent DDT and 3.09 per cent BHC. The population was divided into three groups, the first two were dusted each with one of the two insecticides with an average dose of about 35 gms. per person, and the third was left without treatment for control.

Lice counts were done by examining the inner surfaces of the inner clothes before and after dusting.

In the case of DDT, lousiness was reduced by 50 per cent. In BHC, the reduction was 95 per cent. The drop was also evident in the average lice per person. So one can say that both insecticides are effective though it was much more conspicuous in BHC., and the reduction was sustained for a period of 5 weeks.

#### Fleas:

During 1950, experiments on *P. irritans* were conducted in Gaafra village with DDT and BHC. in order to:

- (1) Evaluate the effectiveness of chemicals on the insect.
- (2) Determine the degree of protection that could be maintained to the host by a single treatment.

- (3) Study the normal seasonal variation in flea density in Menaya village. El Gaafra village was divided into four almost equal parts and were treated as follows:
  - 5 per cent DDT wettable residual spray, 6.6 per cent BHC wettable residuel spray.
  - 5 per cent DDT emulsion residual spray, all at a dose of 40 ccs. per sq/m and the fourth was left without treatment for control.

Three counts were done during weeks 14-18, then treatment started during weeks 18-21 inclusive, then fleas counts followed up to week 48.

### Extent of treatment:

All floor surfaces of bedrooms, stores, sheds, yards, mats, mattresses and beds. No treatment was applied to the interior walls. It was observed that all chemicals gave good control for 14 weeks, though it was much more conspicuous in BHC than in DDT as was explained in lice control.

The study of the seasonal variation reveals that the peak of infestation was during the months of March and April, also this was observed in October and November.

### Other insects:

The treatment of 450 houses was carried out to determine the effect of DDT, BHC and Chlordane on cockroaches and bed-bugs. The results obtained were nearly similar with the three insecticides, their effect was much more stronger on bugs than on cockroaches.

Hence in the latter a combined treatment of residual spraying and dusting will be required to give more effect which will last 13 weeks.

### b.—Laboratory:

A colony of lice is maintained under a temp. of 33°-34° and 60-70 per cent R.H. for the purpose of studying the life cycle of the louse and other biological tests. It is bred on human blood.

Another colony of bed-bugs is also bred for the same reason.

### (5) School of Insect Control:

Two schools exist:

One for malaria and mosquitoes and another for control of other insects. It is intended to amalgamate the two schools into one in the future. Each school gives two courses, a senior course for physicians, engineers and other university graduates, and a junior course for sanitary technicians, laboratory assistants and others of intermediate qualifications.

A practical training is also provided for those having only primary or similar education.

### (6) Workshop:

Is annexed to the Mosquito Branch at Ein Shams. It carries out:

(a) Car repairs,

- (b) Maintenance of sprayers and other equipment, and
- (c) Making such scientific apparatus as may be required.

### Activities of the Section:

(1) Mosquito Branch-Ein Shams:

A.—The experimental station:

The following experiments were conducted:

(1) Malaria control by spray painting houses in Ezbet Sarsak with 5 per cent DDT solution at a dilution of 2 grs. per cubic metre twice a year in June and October 1950.

### Results:

- (a) Disappearance of malaria cases among infants (The ratio for 1949 was 12.5 per cent).
- (b) Compared with the same months for 1949, the positive units gave a reduction in adult mosquitoes exceeding 50 per cent.
- (c) No effect on the larval density.
- (d) Costs = 487 milliems per head per year.

B.—Control of larvae within a radius of 1 kilometer around El Khosous village by means of a 5 per cent D.D.T. solution, weekly from August 1950 till the end of the year.

#### Results:

- (a) Positive anopheline larvae units dropped to 5 per cent of its number before control.
- (b) The ratio of positive anopheline larvae units in habitations dropped to almost one fourth.
- (c) Disappearance of malaria in infants under one year of age (this was 2.5 per cent in 1949). No incidence of new malaria cases throughout the year.
- (d) Costs = 277 milliems per head per year.

From these two experiments it will be noted that either method is effective in malaria control. The choice is determined by the cost. It will be observed, however, that in the Sarsak experiment, the cost of spray-painting was nearly twice the cost of larviciding in El Khosous but it must be pointed out that the number and size of habitations in Sarsak compared to their residents are rather higher than the average namely 118 houses occupied by 500 inhabitants i.e., 4 persons per house of 325 sq. metres as against an average of 5–6 persons per house of 180 sq. metres.

C.—Survey of 14 villages in Qaliubia for mosquitoes and malaria from May till September.

### Results:

- (a) The most prevalent species of Anopheles is A. pharoensis, then A. multicolor and lastly A. Coustani. Of Culex, C. laurenti, then C. pipiens and C. pusillus. Other Culicini are Aedes caspius, Uranotaenia unguiculata and Theobaldia longiareolata.
- (b) Of 2,142 blood films from persons of different ages examined for malaria, 33 or 1.5 per cent were positive for benign malaria and 4 or 0.2 per cent for malignant malaria.

These results should be considered with caution since the experiments had to be suspended following the appearance of A. gambiae in Nubia and the mobilisation of all the strength of the Section for its control.

#### Mobile station:

A survey of mosquitoes and malaria in Siwa Oasis was undertaken prior to planning control measures next year.

### Results:

- (a) Anophelines present in order of prevalence:
- A. sergenti.—Abundant in Khamisa, north and south Siwa, Agormi and Maraki villages, and less abundant in Zeitoun. Breeds mostly in surface water and channels. Enters houses very frequently, seasonal prevalence: in July-October. Minimum: February.
- A. multicolor.—Abundant in North and South Zeitoun and Gerba villages, less abundant in Agormi and Khamisa. Breeds mostly in infilteration water.

- Seasonal prevalence.—February and March. Minimum August. Enters houses.
- A. algeriensis.—Mostly found in East and West Maraki, Zeitoun, North Siwa and Agormi villages; rare in Gerba and South Siwa. Breeds in surface water.
- Seasonal prevalence.—February and March, rare in July-November; was not found as adults in houses.
- (b) Malaria incidence in infants.—25 per cent (96 blood films were taken out of which 24 proved positive: 16 malignant and 8 quartan).
  - In childran 1-4 years old: 50 per cent (54 specimens were taken, 26 positive: 21 malignant and 5 quartan).
  - In children 5-12 years old: 20.4. per cent (132 specimens were taken, 27 positive: 22 malignant and 5 quartan).
  - In adults: 10.3 per cent (132 specimens were taken, 24 positive: 15 malignant and 9 quartan).

All specimens were taken in November and therefore malaria during that month was hyper endemic.

The Section will continue this survey and inter treatment next year.

### Spray-painting team:

16,176 buildings were spray-painted (having a total area of 50,764,318 square meters. These include aerodromes, government buildings, Sarsak, Nubia, etc. (see table 155).

### Laboratory:

See table 156 for larvae identified and table 157 for adults.

#### Malaria School:

- (a) Senior course of 3 months was given twice in 1950 for 6 and 9 graduates-all except one passed.
- (b) Junior course of 2 months was given twice for 14 and 12 students, 4 failed.

### Gambiae campaign in 1950:

Nubia was invaded for the second time by A. gambiae in September 1950. Region of infiltration extended 80 kilometers from Ballana in the south to Genena and Shobak in the North (near Eneba). The first larva was collected on 9th September 1950, while the last one was collected on October 24, 1950. Total positive gambiae larvae was 18. Control started on September 21st., preliminary measures having been taken from September 9th. to 20 th. Not a single case of malaria was recorded.

A separate report is compiled about this campaign. Reference is made here to the A. Gambiae first invasion of Egypt in 1942 for comparison only. Whereas in 1942, the mosquito reached Assiut *i.e.* 800 kilometers North, accounted for more than 100,000 deaths due to malaria and required 3 years to eradicate, it did not exceed 80 kilometers North, caused no deaths and took six weeks to eradicate.

The outlines of the control measures were as follows:

- 1.—Prevention of the Northward infiltration of the insect by means of flitting and spray-painting all means of transport with 0.5 per cent pyrethrum in kerosene and 5 per cent D.D.T. solution.
  - 3,523 railway carriages were flitted and 3,094 were spray-painted.
  - 3,967 floating units were flitted and 1,174 rooms were spray-painted.
  - 2,774 vehicles were flitted only.
- 860 litres of pyrethrum solution and 6,172 litres of 5 per cent DDT solution were consumed.

### 2.—Survey:

292,583 units were surveyed for larvae within the infected area. 18 only were positive for A. gambiae. Outside the infected area, 13,204 units were surveyed and 242 were positive for other anophelines (during the period September to December).

For adult mosquitoes, 34,245 houses were surveyed and only one was positive for A. gambiae within the infected area. Outside the infected area 1,407 houses were surveyed and all found negative (from September to December, 1950).

### 3.—Larviciding:

Breeding places were sprayed with 5 per cent DDT in malariol. 29,410,851 units were sprayed and 20 tons of malariol and a ton of DDT were consumed.

### 4.—Adulticiding:

Three teams, each of 100 members were formed for spray-painting inner surfaces of houses. The first worked from Kom-Ombo to Aswan, the second from Aswan to Amberkab and the third from Amberkab till the borders between Egypt and the Sudan. 25,000 houses were spray-painted by the first team, 9,000 by the second and 13,500 by the third. 29.5 tons of commercial DDT and 6.5 tons of gammexane were consumed.

Cost of spray-painting was 1.3 milliems per square meter, 38.4 m. per house and 13.5 m. per head.

### YELLOW FEVER CONFROL BRANCH

Control of yellow fever is carried out by:-

- (a) Prevention of the entry of the disease through an infected person or an infected mosquito arriving in an aircraft or a steam ship. This is undertaken by the Quarantine Department.
- (b) Control of mosquitoes in general and Aedes aegypti in particular inside and within 2-3 kilometers around aerodomes.

This is earried out by the Insect Control Section. Reference has already been made to units of the Yellow Fever Control Branch.

Work at Luxor and Alexandria airports was stopped this year since no planes from yellow fever areas landed in these airports.

### Spray-painting:

Aerodrome buildings were spray-painted with 5 per cent DDT solution. Almaza military aerodrome, Cairo airport and Alexandria air-port were sprayed three times. Surface area sprayed was more than 5 million square meters. 3½ tons of 25 per cent DDT emulsion and 3.2 tons of 10 per cent gammexane solution were consumed.

### Larval Survey:

466,710 houses were surveyed for Aedes aegypti, 10 units were positive for larvae of this mosquito and 2,340 for other larvae (Table 158).

Aedes aegypti was only found in Hurghada and Quseir during the months of July, August, September, October and November (Table 159).

### FLY CONTROL BRANCH

### Units of the Branch:

Villages in Gîza Province.—Talbia, Tersa, Konaysa, Abul Nomros, Shubramant.

Contract the second

Villages in Menoufia Province.—Agayza, Omkhnan, Shubra Kebala.

Villages in Qaliubia Province.—Sindion, Gabal el Asfar.

Villages in Sharkia Province.—Inshas,

Towns.—Port-Said and Suez,

Oases. Siwa, a second to the control of the control

### Estimation of Fly Density:

The grid method was used and results of the effect of insecticides were entered as follows:

00 (2.3) (0) (1.3)

1 1 1 1 1

1 1/1 . 1

Poor result: Fly count 50 or more.

Fair result: ,, from 20–50.

Good result: ,, less than 20.

## Control of ffies in the village:

A.—By dusting breeding places with insecticides diluted with phosphate rock at an average of 10-12 grs. of powder per sq. meter.

(Breeding places include: manure heaps, chicken-houses, latrines, dung, stables and and garbage).

### Results of different insecticides:

- (1) Good or satisfactory: using 2.5 per cent chlordane powder fortnightly from September-middle of October.
- (2) Moderate: using 1.3 per cent gammexane alfa weekly from April to June and 5 per cent toxaphene fortnightly from middle of September-October.
- (3) 4% gammexane, 2.5% toxaphene weekly, 0.3% gammexane alfa fortnightly.

### B.—Spraying breeding places with chlordane:

This was carried in Sindion at an average of 68 ccs. to the square metre of a 5 per cent chlordane acqueous suspension.

This gave good results for 2 weeks and then the effect deteriorated.

The cost is high compared to the result of the process.

C.—Spray-painting houses with 6 per cent gammexane DDT and Chlordane suspension:

These gave good results in the 1st and 2nd applications for 5 weeks and in the 3rd., the effect was for two weeks only. Samples of flies were collected and examined in the laboratory and proved to be resistant to the insecticides. Resistance therefore is probably acquired after 8-9 weeks from the last application of insecticide. Resistance was overcome by the use of 5 per cent chlordane suspension at the rate of 2 grams. per sq. metre.

Good results were obtained at Inshas using DDT emulsion at the rate of 2 grams. per sq. metre which lasted 5 weeks. The second application of the same insecticide failed to give the former effect. In September, using 2.5 per cent chlordane suspension at the rate of 1 grm. per sq. metre. It gave good results for 3 weeks.

### Fly control at Gabal el Asfar (Sewage Farm):

Both DDT and Gammexane spray-painting of houses failed to reduce the density of flies.

Nor was it possible to judge the result of dusting the drying basins as these were flooded with sludge after dusting. At any rate we can say that spray-painting and dusting failed to give any result at Gabal el Asfar.

### Fly Control in Towns:

Port Said.—In 1949, good results were obtained by dusting breeding places every 2-3 weeks together with fogging, using Tifa machine, and spray-painting hospitals.

In 1950, owing to some local difficulties, the operations in Port Said were not regular and intervals between the 3rd., 4th., and 5th applications were prolonged which resulted in the failure of the last two applications.

Suez.—The same method of control as in Port Said was applied to Suez. Moreover restaurants and other establishments for the preparation or sale of foodstuffs were spray painted. Results were satisfactory for only a short period.

The reason may be due to overflow of cesspits in the poorer districts which resulted in an increase in the fly population.

### Laboratory Tests:

(1) Materials tested.—Pyrethrin and pyrenon were tested and compared to pyrethrum. They were found to be comparatively weaker.

M.E.S.C.A. and Volatex thermal smokes proved to have no effect. Vulcan electric bulb killed flies after one hour.

(2) Fumigant action.—Chlordane was found to have more pronounced effect than either DDT or Toxaphene.

Table No. 155.—Spray-painting Operation in 1950

		Places painted		painted		Insecticide	Insecticides used ( in kilograms	ilograms )	
From to	houses	rooms		in sq. metres	Pure DDT. powder.	Water sus. 50% DDT.	Emul. 25% DDT.	Emul. L. G. 110 Gamma	Water sus. 15% Gamma
25/2 1/3	55	327	1	79,360	9	1	350	ı	1
		733		73,275		1	543	1	1
		143	· 	10,525	1.4		78		1
		1	1	12,000	1	1	96	1	1
		311	1	38,242	1		270	1	1
	,	378	1	46,325	1	1	372		1
		872	1	113,650	1		834	-	Ì
		029	f.	42,700	1	1	1	78.1	1
		116		86,207	1	1	864	44 6	
		1,648	1	98,056		1	1,670		
		144	1	17,550	1	1	138	ļ	1
		772	l	92,050	l	1	840	t-	1
		1,560	54	127,083			1,368	l	1
	ts.	428	1	40,804	1		336	i	1
		430	1	52,600	1	1	480	1	1
	-	920	38	167,100		1	702	32.8	1
			1	44,400		I	1	6.09	1
	14,		10,698	4,683,(21	1	4,261	11,409	1	3,061.
-	16.176	51.445	10, 790	5.764.318	ž.	4 261	19, 720	216.4	3.061.
		<u>·</u>							

	отран		<b>3</b>	1	ı	H	က	4		67	1	1	1	6	H	l
	antattivinn .O		1		ಣ	1	1	1	1	1		1	1		1	1
	C. poicilepes	***	11	1	1	1		, Z7	2			1	10		0]	1
	G. deserticola	.	١.		. 1	-1	6	4	1	1					Ī	1
	collisuq .D	. 1	4	İ	H	1	1	27	1-		ı	1	,	. ,1	1	ı
	itnenusi .O	170	412	127	475	-	720	4	223	ı	1	11	-	72	17	2
	eneiqiq .O	482	191	599	179	1	211	98	850	7	. 16	67	Ġ	458	155	က
0001	sutirteb .A	1,	1		1	ľ		က	1	1.	1	20		Ì	1.	-
or partanon	suiqeso .A	84	001	- 48	159	Į:	166	723	410	-1-	- **	; [	1	24	10	1
TOP INC.	А. векурьі	;, ;;				1	1	ı	က		1			.   :	· f	1
LABORAT	siblsdoidT		12	44	<u></u>	=.	24	6	20	4		ı	1	70	1	H
100	sinestonerU	. 62	, ·	-	9 .		က	41	44	1	1	-	. 1	I	d	
TELD AN	egata .taI	Toyet part	67	1		ĒĎ	4	16		-		1	1	23	-	1
DEN LIFTED	rolooidInM	anthy 1	1	I	1.		9	414		1	1	1	1.	1	1	
LARVAE	Sergenti	11		1		1	1	1,361	1	1		1	1	_ [ ]	-	
1000	Pharoensis	75	759	216	117	-	2,047	1-	9	1.	-	1	ı	32	<del></del>	1
TABLE MO.	sienoirig[A		İ	.	1	= 1,	1	108	-1	_	L		1	1	1	1
TOPT	instanoo	1 }	6	20	70	1	10.	1	92	1	1		,	63		1
	Senioilu	739	732	818	, 826	, <del></del> 1	1,143	933	1,560	13	17	23	10	569	179	7
	Anophelines	76	770	236	122	-	2,067	1,899	61		1	İ	1	36	က	
	io .oN latoT anomicoqa	193	1,351	. 992	928	જ	2,593	2,595	1,506	I	. 17	. <b>63</b>	10	230	182	9
			:	•	:	:	•	-	:	:	:		:	•	:	
	lity.			skhl	ıfar				•	que			•			
	Locality	ons .		Ezbet el Nakhl	Gabal el Asfar		bia		ndria	Mersa Matrouh	:	nada .	24	. siloq		18
		Khosous	Saraak	Ezbet	Gabal	Khanks	Qaliubia	Siwa	Alexandria	Mersa	Suez	Hurghada	Quseir	Heliopolis	Luxor	Ballana

TABLE No. 157.—Details of adult Mosquitoes examined in the Laboratory in 1950

	o. of	ni	1		Anopheles			Culio	ini	
Locality	Total No. o	Anophelini	Culicini	Pha-roensis	Sergenti	Multicolor	Theo- baldia	A. aegypti	A. caepius.	Oulex.
		,						٠.		
Khosous	2,085	77	2,061	77			*****		5	2,056
Sarsak	764	285	671	285			1		25	645
Ezbet el Nakhl	1,001	14	1,001	14	-	-	4	-	4	993
Gabal El Ásfar	600	6	623	6			_	,	43	581
Khanka	5		5	Processor	-					5
Mobile Units	1,599	685	1,479	685	-		11	_	17	1,451
Siwa	1,501	2,193	329	1	13	884		-	38	201
Suez	1		1		_	-		-	lar.	1
Heliopolis	6	_	6	Programme	<b>d</b>			1		6

TABLE NO. 158.—YELLOW FEVER BRANCH REPORT IN 1950.

No. of open lands positive for Aedes ingrepti		ļ	1	1	I	1	1	l		1	1	1	1	1
No. of open lands posit, for pupse		-1-	1	1	1		1	5		1				1
No. of open lands posit, for larvae		231	201	253	426	230	110	94	57	31	84	116	104	1,929
Jisoq sunits posit.		1		-				, ]	1		1			
No. of houses posit.		1	Î			1	1		1			1	1	1
No. of U. P. for,	<b></b>	. 25	20	28	34	36	44	48	11	24	63	12	9	35
Mo. of houses P.		25	20	28	1	1	44	48	11	16	63	10	4	271
No. of U. p. for		11.	1	1	,	1	0		4	1	<del>,</del> 1	<u>က</u>		2
No. of houses posit.		1	1	-	1	1	1		4			ಣ		2
No. of unaccessible stim		946	882	1,068	1,442	519	161	162	104	94	147	163	162	5,850
No. of unaccesible houses,		152	161	204	271	114	38	38	30	31	59	38	39	1,145
wen to .o.V stinn		419	444	468	833	470	441	672	595	426	721	559	992	6,819
Mo. of new houses		218	238	331	360	205	204	257	244	171	320	224	347	3,119
Vacant of Vacant stinu		754	122	1	620	583	546	583	661	292	505	402	330	6,710
No. of vacant		599	427	336	421	446	470	427	503	353	379	421	228	5,029
Mo. of closed in the state of t		9,707	8,066	9,158	12,020	8,064	-7,456	11,106	11,439	8,390	11,273	7,289	7,950	113,918
No. of closed houses		3,249	2,830	3,432	4,033	2,919	2,641	2,767	3,320	2,177	3,256	3,344	2,414	36, 182
edinu lo .oN benimexe		174,432	159,565	171,164	210,371	117,904	70,053	85,598	83,120	63,178	87,583	80,332	77,999	1,381,299
No. of houses banimaxa		43,028	42,345	40,793	49,289	41,072	32,986	40,371	33,171	29,461	41,358	36,995	466,710	466,710
		-:	:	:	:	:	<b>:</b>	:	÷	:	:	:	:	i
								:						
		:		:		ç	:	:	:		:		:	Total.
		January.	February	March .	April .	May.	June.	July.	August	September	October	November	December	

18 specimens of Aedes aegypti larvae were collected by the surveying team of the Branch.

TABLE No. 159.—AEDES AEGYPTI LARVAE FOUND IN 1950 IN YELLOW FEVER AREAS

		January	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	TOTAL
														- Constitution on Constitution of Constitution on Constitution
Alexandria	··· •		_		-	_	_			_		·	_	
Mersa Matrou	h.		_		_		_					_	—	
Port Said		.   -	_	—	-	-	_			_	—		_	
Suez	··• ·	-	_		_	_	-	_		_				_
Hurghada			_		-		-	1	14	1	_	3	_	19
Quseir	··• •		_		-	_	-		8	_	1		—	9
Safaga	··· ·		_	_	-	_	_		_	_	—	-	_	******
Cairo	· · · ·	— 0	_		-		—		—		—	_		· ·
Luxor	•••	–	_	_	-	—	-		_					_
Ballana			_	-	-	-			-		—	—		
Tor		–	_	-	-	-	_			—	—			_
TOTAL	•••	–	-	_		_	-	1	22	1	1	3	_	28

All larvae were found in Zeers.

### Chapter XXI.-Bilharzia Snail Control

Snail Control Work has been gradually expanding in the last decade to cover the provinces of Giza, Aswan, Qena, Beni Suef, Menoufia, Qaliubia and Behera and also the Oases. During 1951 the work has been substantially extended in the Delta provinces. The large territory comprised between the two branches of the Nile North of Menoufia, formerly Gharbia province, but lately divided into Fouadia and Gharbia provinces, has been tackled from 3 centres: Tanta, Bilqas and Kafr-el-Sheikh, forming the head-quarters of 3 new inspectorates. The streams were measured and mapped to a large extent and partially surveyed for snails.

In Behera province, where control has slowly spread from a Southern to a Middle Behera Inspectorate, the territory brought under control grew large enough to warrant the formation of a new North Behera Inspectorate with headquarters at Siouf.

In Beni Suef province, two strips of territory were added: one south of the administration boundaries, to include the intakes of various main streams and another west of Bahr Youssef where additional territory was brought under cultivation in recent years.

In Aswan province, several irrigation schemes South of Kom Ombo were also included.

A special effort was made by the training centres to train new junior staff for the Delta Provinces. A total of 410 trainees attended the classes of which 341 were subsequently engaged while 69 either dropped out or failed to pass the examination. Owing to financial and other difficulties this training had to be curtailed later and the work in the Delta could not be expanded to the full.

The limitations of trained personnel coupled with a chronic lack of hired labour has caused patchy application of control in the new provinces and retardation of control measures in certain areas of the old provinces.

The situation and the success of control during any year is assessed by comparing the main spring survey of the year with that of the following year, which is made after the treatments, taking into consideration the biological necessities for surveying in spring and not in winter. A comparison of the spring surveys of 1950 and 1951 is given in tables 160 and 161 and the extent of the intervening treatments in Table 162.

In the 3 Oases, no Bulinus was found, except one new infection in Baharia, in the terminal streams of a spring which had not been infected with this species. Limnaea is still found.

### Application of Law 29/1948.

During the year 1950 the provincial field staff of the section registered 138,241 distributaries measuring 52,943 kms. and belonging to 190,188 owners. 75,670 notifications were sent out concerning the clearance of 51,817 streams. 8,890 streams measuring 4,416 kms. were cleared by 10,613 owners. The section cleared, at the owners' expense, 21,831 streams, measuring 11,228 kms. and belonging to 67,036 owners. Costs amounting to L.E. 32,547 will be collected together with land taxes.

TABLE NO 160.-SURVEYS OF STREAMS BY NET AND PALM-LEAF TRAPS: NUMBERS AND LENGTHS INFESTED WITH BULINUS AND PLANORBIS SNAILS; COMPARISON OF THE SPRING SURVEYS 1950 AND 1951

								Numbers				Len	Lengths in kms.	, m	
Province or Inspectorate	Inspecto	rate			Year	Surveyed	Infested		with Bulinus	with Planorbis	Surveyed	Infested		with Bulinus	with Planorbis
								%					%	F	
Fayoum	: )	:	:		1950	104,912	3,379 1,860	හ ⊢	3,379 1,860	00	27,702 36,490	3,727 2,648	13	3,727 2,648	0
Giza	:	:	:		1950	30,260 29,480	2,093	2	2,093 1,674	a few	7,399	2,589	35 32	2,589	a few
Aswan	:	:	:	$\overline{}$	1950	20,165 24,670	1,257	9 4	1,257	00	4,763	882 918	19	882 918	0
Gena	:	:	:	<del></del>	1950	10,655	653	9 9	653 719	00	2,833	690	24 24	690	0
Beni-Suef	:	:	:	<del></del>	1950	16,548	4,172	25 20	4,172 3,471	00	5,261 5,847	2,302 2,568	<del>44</del>	2,302	00
Qaliubia	•	:	:	<del></del>	0000	30,249	3,060	10	2,901 2,805	410	8,739	2,780	32 26	2,707	359 386
Menoufia	:	:	:	<del></del>	1950	33,741	5,150	15	4,995	766	11,138	5,545 5,810	50	5,516 5,730	600 818
South Behera	:	:	:		1950	38,110 30,447	6,361	17	5,203 4,519	2,497 2,204	12,330 12,245	5,222 4,541	42	4,861	1,818
Middle Behera	•	:	:	:	1959	43,517	13,709 8,699	32 21	8,669	10,721 5,903	14,050 13,032	6,848	49 35	5,143 3,444	4,678
Gharbia	•	:	:	:	1921	25,387	6,253	25	4,562	3,916	9,671	3,879	40	4,011	2,552
	H	Torar	•	:	1950	328,157 348,208	39,834 37,406	20	33,322 31,046	14,394	94,215 116,837	30,585	32	28,237	7,455
						-								mayor	

Table No. 161.—Intensity of infestation in streams infested with the snail carriers of bilharziasis, main net surveys of spring 1950 and 1951

		Buli	nus truncatus		Plan	orbis boissyi	
Province or Inspectorate	Year	Dips in infested streams	snails dipped out	snails/ 100 dips	Dips in infested streams	snails dipped out	snails/ 100 dips
Fayoum	$1950 \\ 1951$	354,325 320,683	$19,851 \\ 11,736$	6 <b>4</b>	_	<u></u>	_
Giza	1950 1951	156,912 132,498	16,848 13,281	11 10	<u> </u>	_	_
Aswan	1950 1951	93,224 59,583	$26,064 \\ 6,238$	28 10	<u> </u>	_	
Qena	1950 1951	$43,551 \\ 46,317$	$1,932 \\ 2,137$	4 5			_
Beni Suef	1950 1951	265,608 236,643	40,888 13,348	-1.5 6		_	_
Qaliubia	1950 1951	107,280 117,990	$11,711 \\ 11,636$	11 10	$22,971 \\ 23,442$	4,470 2,448	20 10
Menoufia	1950 1951	533,202 541,932	$\begin{array}{c c} 63,298 \\ 72,364 \end{array}$	12 13	68,931 84,39 <b>0</b>	27,904 28,918	40 34
South Behera	1950 1951	$\begin{bmatrix} 352,671 \\ 253,983 \end{bmatrix}$	57,706 40,746	$\begin{array}{c} 16 \\ 16 \end{array}$	156,198 116,613	69,844 44,833	45 38
Middle Behera	1950 1951	$ \begin{array}{c c} 393,195 \\ 234,261 \end{array} $	49,125 30,132	13 13	404,322 236,97 <b>3</b>	105,834 64,339	26 27
Gharbi <b>a</b>	1951	344,031	43,872	13	324,804	54,659	17
TOTAL	1950 195 <b>1</b>	2,062,425 2,072,587	250,532 235,392	12 11	652,422 786,222	208, 102 195, 197	32 25

Note The total number of dips taken in 1950 was 10,608,349 and in 1951, 13,881,642.

Table No. 162.—Treatmen't of streams infested with the snail vectors of bilharziasis, April 1950 — March 1951

Province		Clearance			Sulph	ation	
or Inspectorate	Numbers	Kms.	man-days	Numbers	Kms.	man-days	Tons Cu So 4
Fayoum	777 2,144 632 1,458 3,327 105 3,232 2,577 5,291 685	937 1,374 697 1,099 2,124 113 3,253 1,853 2,220 598	17,081 23,006 11,085 6,064 41,375 2,462 52,350 28,164 46,068 11,772	4,455 2,624 1,236 1,107 4,549 2,892 2,475 4,458 13,709 778	4,213 2,317 902 970 3,061 2,305 3,252 3,437 6,273 862	7,845 3,735 2,880 3,237 5,497 4,923 6,911 4,960 8,061 977	290 236 140 139 226 204 229 237 210 35
Total	20,228	14,268	239,427	38,283	27,592	50,026	1,946

### The Laboratory:

- (1) Routine examinations of snails for bilharzia infection were made in the main laboratory on snail samples from Giza, Qaliubia, Menoufia and G'arbia provinces. 6,526 Bulinus from 45 localities and 9,324 Planorbis from 37 localities were examined and 13 samples showed infection.
- (2) Since it is well known that the concentration of CuSO<sub>4</sub> solutions decreases rapidly in nature after application to the streams, the effects of various factors on 30 p.p.m. solutions of copper sulphate in Nile water were investigated:
  - (a) in vitro; the following results, demonstrating the neutralizing effects of silt and mud were obtained in 4 litre aquaria at temperatures ranging from 190-310 C.

approximate  ${\rm CuSO_4}$  concentrations, given as a fraction of the original (30 p.p.m.)\* after exposure times of:

Solution in	1 hour.	1 day	2 days	3 days
Distilled water (control)	1	1	1	1.
Nile water only	2/3	1/2	1/3	1/7
Nile water with mud bottom (very silty)	1/2	1/6	1/25	1/70

 $<sup>*(30 \</sup>text{ p.p.m.}=1)$ 

(b) in an environmental laboratory pond of 0.9 cubic metres capacity containing clear water over 8 cms. of mud and some aquatic vegetation, at temperatures varying from 10° to 30° C.

Table 5.—Approximate average decrease of concentration of a 30 p.p.m. CuSO<sub>4</sub> Solution in Nile water, from various measurements, after exposure times of :

,	5 min.	2 hrs.	1 day	2 days	3 days
Calculated initial concentration 30 p.p.m.=1	2/3	1/3	1/6	1/10	1/15

(c) The stabilizing effect of citric acid, in vitro, is illustrated as follows:

		E	xposure tim	е	
30 р.р.m. solution of CuSo <sub>4</sub>	0 hr	2 hrs	24 hrs	48 hrs	72 hrs
				•	
In Nile water (control)	30	15.7	11.8	7.8	7.8
Same, with 5 p.p.m. citric acid	30	23.6	15.7	15.7	13.8

### Chapter XXII.—Leprosy Control

Every effort is being made since 1929 for the detection and isolation of lepers. leprosy clinics with segregation quarters have been provided in chief towns of provinces. Four branch clinics in connection with each are provided in neighbouring district towns. Under Law No. 131 of 1946, the isolation of lepers is now compulsory to protect the community against this fatal disease and ensure care being taken of leprous patients.

#### Statistics:

Examination of 2,055 patients presenting themselves to leprosy units revealed that 1,156 were leprous as compared with 2,060 and 1,214 respectively in the previous year. Review of the records revealed that 374 lepers were repeatedly recorded leaving 783 new lepers during the year. This brings the total number of new lepers recorded since leprosy control was started in 1929 until the end of the year under review to 12,484.

The following Table No. 163 gives the details of patients returned positive for leprosy by the different units:

	<b>T</b> .	ABLE No. 163	
Unit		Branches	No. Lepers
Abou Zaabal Leprosy Colony Amria Leprosy Colony			307 82
Cairo Leprosy Hospital	9	Main Clinic Embaba Karamidan Qaliub	2 39 106 12
Zagazig Leprosy Clinic		Main Clinic	1 <b>59</b> 27
		Abou Hammad Shebin el Kanater Minia el Kamh Abou Kebir	— 15 4 6
Souhag Tanrogy Clinia	+-	Main Clinic	<b>52</b> 34
Souhag Leprosy Clinic	•••	Tema	15 15 14 5
Tanta Lanrosy Clinia		Main Clinic	83 63
Tanta Leprosy Clinic	••• ••• ••	Mahalla Kobra Zefta Kallin Dessouk Kafr el Zayat	9 14 5 16 1
Minia Leprosy Clinic		,	106 36 7
		Beni Mazar Abou Kerkas Samallout Mallawi	9 12 15
		TOTAL	79
Alexandria Leprosy Clinic	*** *** **	Damanhour	21 14 7
		Edku Total	43

### Table No. 163 (contd.)

Unit	Branches	No. Lepers
Mansoura Leprosy Clinic	Main Clinic Damietta Sinbellawein Sherbin Dekernis Total	31 4 7 4 8 <b>54</b>
Shebin el Kom Leprosy Clinic	Main Clinic Menouf Ashmoun Quesna Benha Tala Total	22 13 - 8 8 11 8 70
	Main Clinic Luxor Koús Deshna Nag' Hammadi Total	14 10 10 2 9 45
	Main Clinic Beba	74 3 77

A total of 974 lepers were in segregation in Abu Zaabal and Amria Colonies, Cairo Hospital and segregation annexes of clinics at the end of 1950 as against 923 at the end of 1949. Details are as follows:—

Abou Zaabal Colony	• • •	• • •		• • •	 637
Amria Colony	• • •	•••	• • •	• • •	 282
Souhag Clinic	• • •				 5
Tanta Clinic					 6
Minia Clinic					 17
Mansoura Clinic					 16
Qena Clinic					 11

The average rate of attendance for treatment was 22% as shown below: Table No. 164.

Month		No. of attendances (visitors)	Rate Percent
January	••• ••• •••	11,313	17
February	••• ••• •••	10,352	22
March	••• ••• •••	11,026	24
April		11,070	23
May	•••	13,835	23
June	··· ··· ···	10,785	22
July	*** *** ***	9,428	19
August	••• ••• •••	12,904	21
September	•••	9,359	19
October	•••	13,052	21
November		10,889	33
December	•••	10,317	21

#### Treatment:

Hydnocarpus oil was used in the treatment of all lepers. Every leper received a weekly intramuscular injection of 4–5 ccs. of the oil. Treatment with Sulfa compounds was tried at Abou Zaabal and Amria Colonies subject to introduction in other units. Good results were obtained.

A total of 128,058 injections weighing 583 kgs. were given to lepers this year as against 117,903 injections weighing 529 kgs. in the previous year. The number of dressings applied to patients was 203,134 as against 173,822 last year. Details are as follows:

TABLE No. 165

		1	Month	1					Number of injections	Quantity of oil	N. of dressings
January	•••	•••	•••		•••	•••	•••	•••	10,524	44.871	14,880
February	•••	•••	•••	•••	•••		•••	•••	19,782	44.151	13,530
March	•••	•••	•••	•••	•••	•••	•••	•••	10,410	38.212	13,576
April	•••	•••	•••	•••	•••	•••	•••	•••	10,599	49.862	14,964
May	•••	•••	•••	•••	•••	•••	•••	•••	13,173	60.650	19,011
June	•••	1	•••	•••	•••	•••	•••	•••	10,610	48.581	16,921
July	•••	•••	•••	•••	•••	•••	•••	••	8,899	39.959	16,366
August		•••	•••	•••	•••	•••	•••		13,329	62.180	21,521
September	•••	•••	•••	•••	•••	•••	•••	• • •	8,219	37.375	15,516
October	•••	•••	•••	•••	•••	•••	•••	•••	12,296	55.971	19,751
November	•••	•••	•••	•••	•••	•••	•••	•••	9,855	44.143	17,984
December	•••	•••	•••	•••	•••	•••	•••	•••	10,362	46.670	18,114
					То	TAL	•••	•••	128,058	582.629	203,134

In addition to treatment of leprosy, patients received treatment for other accompanying diseases.

#### ABOUL ZAABAL COLONY

#### Patients:

The remaining female residents at Cairo Leprosy Hospital have been accommodated at Abou Zaabal Colony. The hospital will be used as a preventorium for the accommodation of children of leprous parents. Of 429 lepers admitted to the colony during the year, 307,(208 females and 99 males) were segregated for the first time and 122 had been inmates and discharged for different reasons, as against 279, 159 and 120 respectively during the previous year.

The number of lepers in segregation at the end of the year was 637 as against 437 in the previous year.

#### Technical Works:

- (1) Of the 307 new admissions, 170 were of the anesthetic type, 18 of the tubercular type and 119 of the mixed type. Examination of the 122 re-admissions revealed that 45 were of the anesthetic type, 8 of the tubercular and 69 of the mixed type.
- (2) Samples from the nose and skin were taken from the 637 lepers in segregation for bacteriological examination and gave the following results: 258 positive for nose only, 129 positive for skin only, 190 positive for nose and skin and 60 negative for nose and skin. Of these 17 were positive and became negative; 3 were negative and became positive and 617 remained without change.

- (3) Clinical examination of all the inmates revealed that the condition of 450 lepers improved, 141 remained stationary and 46 deteriorated.
- (4) 42 cases of perforating ulcers were met with. All were treated and improved except 17 cases which were still under treatment at the end of the year.
- (5) Of 420 cases of lepra reactions met with, 84 were severe. All were treated and improved except 25 cases (including 6 cases of severe reaction) which were still under treatment at the end of the year.
  - (6) A total of 104,785 dressings were applied to patients during the year.
- (7) 138 surgical operations were performed in the colony as follows: 63 incisions, 72 widening of incisions, 1 amputation, 2 piles.
- (8) Of 730 cases of skin diseases met with, 48 were treated for scabies and all recovered; 668 for dermatitis and all recovered except 37 which were still under treatment at the end of the year; 3 for tinea and all 3 were still under treatment, and 11 for urticaria and all were cured.
  - (9) Venereal diseases cases (syphilis) met with numbered 27 and all were treated.
- (10) Medical cases treated during the year numbered 411 as follows 2 cholecystitis, 355 constipation and enteritis, 7 heart failure and 47 general debility. All cases were treated and cured.
- (11) 137 cases of chest diseases were met with as follows: 3 pulmonary tuberculosis, 3 asthma, all under treatment; 12 acute bronchitis, 116 bronchitis. All were treated.
- (12) The ophthalmic clinic was attended by patients 3,737 times. 64 ophthalmic operations were done this year as follows: 8 probing and syringing of lacrymal canals, 9 skin and muscle, 13 trachoma, 18 follicles (pitching), 1 excision of the eye, 4 conjunctiviplasty, 5 leprotic masses, 6 trichiasis (snellen's operation).

The ophthalmologist visited the colony 37 times during the year.

- (13) 425 lepers were treated in the dental clinic. 60 dental operations were performed during the year, namely, 62 extractions and 3 gum boils. 30 visits to the colony were paid by the dentist.
- (14) Cases of intestinal parasites numbered 155, namely 142 bilharzia and 13 ascaris. All were treated and cured.
- (15) 842 samples of urine from patients and staff were examined at the colony laboratory and gave the following results: 142 bilharzia, 86 salts and cylindroids, 66 pus and 25 albumen.
- (16) Examination of 214 samples of fæces gave the following results: 5 ancylostoma, 25 ascaris and other parasites.

### Staff Clinic:

Resident staff and their families attended the staff clinic 4,345 times or a ratio of 12 visits daily:

#### Social Activities:

- (1) School.—30 lepers attended the day school and 20 the night classes.
- (2) Library.—A monthly average of 290 lepers attended the library or 10 lepers daily. An average of 160 books were loaned to lepers monthly or 5 books daily.
- (3) Preaching.—Sermons were delivered weekly with Friday prayers at the mosque of the colony. These had a good effect on the conduct of patients.
- (4) Sports.—The boy-scout troop of 30 lepers continues its scout exercises with the object of infusing discipline and obedience in young lepers. The two foot-ball teams held a few games during the year.

### Recreation:

The inmates were entertained on different occasions and were provided with extra meals during Ramadan and feasts. The canteen provided commodities and the club organised games and recreations.

### Prison:

There were 30 lepers remaining in prison on January 1, 1950. 83 leprous prisoners were admitted during the year and 98 released, leaving 15 prisoners in detention at the end of the year.

### Industrial Activities:

All the industrial requirements of the colony have been performed by the different workshops which are manned by the lepers. Large amounts of clothes, slippers, mattresses, etc., were manufactured, besides repairs to doors, windows, sanitary installations, etc.

### Agricultural Activities:

Some 12 feddans of land have been reclaimed by the inmates. This brings the total area under cultivation to about 115 feddans. Large quantities of various crops were produced during the year. The number of cows kept in the dairy was 50 cows. These yielded 26,237 kgs. of milk. Male calves are slain and the meat served to inmates. Some 5,749 kgs. of meat were provided this year.

### Power and Pumping Plants:

551,610 Kilo Watts were consumed in lighting and filters. 1,204,033 cubic metres of fresh water were pumped for irrigation. 114,351 cubic metres of potable water were filtered. 329,400 cubic metres of sewage were drained and used as fertiliser.

The repair workshop undertook all the repairs required by these plants.

#### CAIRO LEPROSY HOSPITAL

This hospital was used for the segregation of female lepers. Early in the year, the inmates were accommodated in the special quarters provided wihin Abou Zaabal Colony. It is proposed to use this hospital as a preventorium for the accommodation of children of leprous parents. Meanwhile, it is used as an out-patient dispensary until funds are allocated.

Of 279 persons presenting themselves to the hospital during the year, 159 suffered from leprosy and the rest from other diseases.

Of the 159 lepers, 15 were of the tubercular type, 91 of the anesthetic type and 53 mixed.

There are 3 out-patient branch clinics in connection of this hospital.

- (a) Embaba Branch recorded 39 new cases and 3,669 visits during the year.
- (b) Karamidan Branch recorded 106 new cases and 8,499 visits during the year.
- (c) Qaliub Branch recorded 14 new cases and 2,445 visits during the year.

Lepers were again treated with hydnocarpus oil given intramuscularly. 14,660 injections weighing 72.918 kgs. of oil were administered and 7,425 dressings applied during the year.

#### AMRIA COLONY

The number of lepers in segregation at the end of the year was 282. Hydnocarpus oil was used in treatment. Sulphone compounds were tried in treatment with satisfactory results. 11,587 injections weighing 42.150 kgs. of oil were administered and 19,510 dressings applied during the year.

#### Recreation:

The same arrangements for entertainment and recreation employed at Abou Zaabal Colony are employed in Amria Colony.

### Drinking Water:

The colony is supplied with drinking water from El Noubaria filtration plant of the Ministry of War, some 30 kilometres from the colony. Water is pumped to an auxiliary pumping station at Abdel Kader village and thence into two large tanks to be distributed through pipes to the various compounds.

### Light:

Five electric generators are used for lighting the compounds and roads of the colony. Solar oil is used in driving these generators which are in a bad condition inspite of the few repairs made.

### Guards:

A camel force composed of a sergeant, two corporals and 18 men kept guard at the colony. For military reasons, half the force was replaced by frontier policemen. This arrangement did not prove satisfactory and arrangements are being made to restore the force to its original formation.

Table No. 166.—Number of Patients In Leprosy Units During 1950 According to their Birth Places and Residence

ubia	eorabica A	29	χĊ	22	12		Ī	1		1	11		1	7.9
Qaliubia	Вітєп	31	ro	21	11					1	111	1	1	7.9
Sharkia	Residence	13		ಣ	34			1		1			1	65
	Вітећ	31	<del></del>	C	ಣ	1			]	F4	1	1	1	20
hlia	Residence	41	10	r	හ	1	9		1	45	1	1	1	106
Dakahlia	dtrifl	41	10	ರಾ	ಣ	1	7	1	1	44		1	1 .	108
nfia	Besidence .	37	က	9	ı	1	12	I	-	ı	58	1	I	9-1
Menoufia	АзтіЯ	35	ಣ	19	22	1	13	1	T	-	58	I		131
bia	невіденсе	42	2				09	1	9	9	1	1		132
Gharbia	Вітіћ	41	<b>o</b>	<del></del>	1	1	58	1	1-	9 .	1	1		121
la	Residence	14		1	1	1	4		27	1	_		1	<b>6</b>
Behera	ВітіЯ	14		<del></del>	1	1	4		16	1	<del></del>			700
3e	ээ <b>п</b> эь <b>і</b> гэЯ		<del></del>		_	1	1	1	1	1	1			670,
Suez	АзтіЯ					1	-	ı	1	-	I		I	<b>र</b> र
al	Besidence	<del></del> i	23	1	23	1	1		ļ	ı	1			10
Canal	Hirth		<del>,</del>	-	1	ı	1	1	1	ı	-	1	I	83
Damjetta	Residence				1	1	1	1	1	23	1			65
Dam	Herth		-	_	1	1	1	1	I	2	1	ı	I	4
ndria	Pesidence	9	9		-	1	ı	ı	15	I	ı	1	1	288
Alexandria	B:rth	9		<del></del>	1	I	I	1	∞	1	1	1	1.	91
Cairo	Residence	17	-	20	1	I	I	1		ı	1	1		89
Ca	Birth	7		1-	1	1	1	1	1	1	1	1	-	1 2
			:	:	:	:	:	:		:	:	:	•	
		:	:	:	:	÷	:	:	:	:	:	:	:	:
		:	:	:	:	÷	:	:	:	:	:	:	:	OTAL
		· i	:	:	:	:	:	:	÷	÷	:	÷	:	Tor
Units		:		:	:	:	:	:	:		:	i		
		ymc	:	:	:	:	:	:	:	:	Clini	:		
		Col	**	tal	ic	:	÷	:	:	:	Com	:	inic	
		abal		ospit	Clin	*	33	33	ria "	بة به	e] K	inie	ef CI	1
		Abu Zaabal Colony	ria	Cairo Hospital	Zagazig Clinic	Souhag	ta	ia	Alexandria "	Mansoura	Shebin el Kom Clinic	Qena Clinic	Beni Suef Clinic	
		Abı	Amria	Cair	Zag	Sou	Tanta	Minia	Ale	Mar	She	Qen	Ben	

A. ... 100 m Residence Total Birth Residence Abroad Birth Residence Sinai Birth Residence Birth Western Desert Residence Birth Residence Aswan ಣ O Birth Residence Qena ~ Birth Residence Birth Residence Birth Residence  $\mathbf{Birth}$ Residence O Birth Suef Residence Birth Residence ಬ Birth TOTAL Units Abu Zaabal Colony Cairo Hospital ... Shebin el Kom, Alexandria Beni Suef Mansoura Zagazig Souhag Tanta Minia

-NUMBER OF PATIENTS IN LEPROSY UNITS DURING 1950 ACCORDING TO THEIR BIRTH-PLACES AND RESIDENCE. (Cont.) TABLE No. 166

tion	be <b>x</b> iM		129	35	53	31	47	27	20	23	19	21	14	37	456
of infection	oitedtsenA		170	41	91	21	36	22	59	15	35	47	29	29	630
Type o	Tubercular		00	9	15	1	1	22	1	4	1	22	23	11	2.0
	Кеlаtіves С.U,	<u> </u>	22	<u>_</u> 6	14	2	1	2	1		4	က	1	70	49
	8194si2		<b>∞</b>		6		1	14	က	1	7	22		67	98
	Sons and daughters			1			1		7	-	1	7	1	7	1 4
	eliW ban are2				1		1	-		1	1		1	1	
Infection	bnadeuH.		4	1	7	1	1	1	1	1	1	1	1	1	70
of Infe	Parents only		1	1	1	1		1	1	-	1	1		ı	-
no	Мотрег			1	1	-		H	1	1	1	7			85
Transmission	Father only		62	-	ಣ	63	П	က	9		_	67	3	က	27
T	.inI .msH		17	10	27	7	7	25	10	1	9	6	က	11	126
- 11 - 1	Forgn. Inf.		13	∞	16				ı	1	1		1	-	9.7
	Admit Inf.		30	18	43	2	1	25	10		9	6	က	11	163
	Deny Inf.		277	64	116	45	82	81	69	42	48	61	42	99	993
	snoigiler redtO			1	1		1	1	1	1	1	1		1	
	Copts		17	2	13	1	13	ſ	21	1	1	1	က	11	83
)IS	Moslems		289	80	146	51	10	901	10 80	42	53	70	42	99	1,072
Lep	Foreigners		-		1			İ	!					1	
ral Notes on	Egyptians		306	81	158	52	83	106	46	42	54	7.9	45	77	1,153
11 60 1	beirramnU		159	54	69	24	36	19	43	21	40	28	16	31	288
Gen	beirraM		148	28	06	28	47	39	36	21	14	42	29	46	268
	Females		208	1	42	14	19	43	17	15	15	18		12	399
	səlsM		66	82	117	38	64	72	65	27	39	52	40	65	757
100	Positive		307	82	159	. 52	83	106	79	42	54	70	45	11	1,156
of Patients	evitagen.			CI	120	09		196	25	48	19	360	10	16	899
No. 0	stneitsq weN		307	84	279	112	83	302	104	06	121	430	20	93	2,055
	Units		Abu Zaabal Colony	olony	spital	Clinic	:	:	:		:	Kom "			TOTAL
			Abu Zaak	Amria Colony	Cairo Hospital	Zagazig	Souhag	Tanta	Minia	Alexandria	Mansoura	Shebin el Kom,	Qena	Beni Suef	

					_	_ 205								
	S bas N	102	36	59	30	47	36	12	20	19	က	13	37	A
ndings	nizlS	33	9	6	H		ಣ	9	7		20	67	00	96
Laboratory findings	9soM	47	<del></del>	12		36	13	22	-	32	20	1	1	100
aborat	Pos. B	182	43	08	32	83	55	20	28	52	28	15	45	099
T	A .g. B	125	39	62	20		54	59	14	<b>C</b> 3	42	30	32	496
	Tevo bas 12	1	11	1		1							67	- ee
	16-20 years	4	9	67	7		H	H	1	ļ	2		භ	1.9
Disease	II-I5 years	6	13	9	*	67	13	1	1		1		4	98
1	6-10 years	38	23	10	_	1	<u></u>	6	10	4	13	10	11	143
Duration of	3-5 years	115	19	37	7	71	27	41	21	ಣ	27	22	18	408
Q	Two years	92	7	46	6	62	24	24	<u></u>	32	24	9	15	288
	One years	49	က	38	34		45	4	4	15	5		24	249
	Over 60		1		1	-	7		1			1	63	9
	09-99		1	<del></del>	2	CI	67	-	T	1	67	١,	4	14
	33–13	1	67	62	1	70		1	4		20	67	72	88
disease	09-9₹	23	-	4	67	72	2	2	67	1	က	1-	က	30
of dis	97-17	_	4	00	0.7	ಣ	9	4		H	72	4	က	39
apearance	0₽-98	0	20	7	1	72	0	10	-	П	20	1	9	19
11	31-35	14	2	10	00	6	2	11	5	7	70	70	00	98
nts on	08-92	37	10	26	9	18	6	12	4	4	11	က	16	156
Patients	22-12	44	7	33	9	16	14	10	<u></u>	6	11	က	6	175
Age of	16-20	110	24	33	12	13	12	12	9	37	7	9	12	284
	91-11	71	16	23	12	6	18	10	6		6		9	190
	01-9	12	7	11	67	22	21	∞	4		00		4	80
	g-1 mori	<b>C</b> 7		-	1	-	70				-	1	72	1 55
	19Vo bns 09		67	-	1	10	1					[	က	188
exam.	09-19	10	က	4	က	11	4	67	ಬ	7	9		20	61
first	09-1₹	25	14	11	4	12	∞	14	က	9	11	13	Ħ	132
ts on	31-40	52	27	25	∞	12	17	17	, rc	12	10	70	19	209
Patient	08-12	176	25	25	15	18	23	35	13	35	25	6	27	52
Age of	02-11	39	11	22	22	20	38	18	14	1	3 10	11	13	246
¥	01-1 mort	ĸ	1	က	-	1	. 15	<u>.</u>	<del></del>		∞	1	3	88
		Abu Zaabal Colony	Amria Hospital	Cairo "	Zagazig Clinic	Souhag "	Tanta ,,	Minia ,,	Alexandria ,,	Mansoura ,,	Shebin el Kom C.	Qena Clinic	Beni Suef Clinic	TOTAL

### PART V.-RESEARCHES AND LABORATORY EXAMINATIONS

# Chapter XXIII.—Summary of the Work of the Department of Laboratories

### 1.—Bacteriological Section:

The total number of specimens examined bacteriologically in the Central, Provincial and Branch laboratories, during the year 1950, amounted to 545,870.

### 2.—Clinical Pathological Section:

3,715 specimens were examined in the Section during the year under review.

#### 3.—Chemical Section:

The total number of samples examined chemically in the Central laboratories as well as in the Tanta and Assiut laboratories, during the year 1950, was 93,118.

#### 4.—Water Section:

### (a) Bacteriological Service:

The total number of samples of water, aerated water, ice and syrup examined by this service during 1950 amounted to 9,855.

### (b) Chemical Service:

During the year under review, 1,168 samples of water were subjected to chemical analysis.

### 5. Antirabic Institute and Hospital:

During the year 1950, 9,686 patients attended the Institute at Cairo. Of these 9,448 were fully treated.

The number of patients who attended the Antirabic Out-Centres at Alexandria and Luxor amounted to:

Alexandria 1,441 of whom 982 were fully treated.

Luxor 430 of whom 393 were fully treated.

### 6.—Serum and Vaccine Laboratory:

The following vaccines and sera were prepared during the year 1950.

(1)	T.A.B. Vaccine	• • •	•••	• • •	•••	• • •	1,952,000	ccs
(ii)	Anti-cholera Vaccine	• • •	•••	• • •	•••	•••	1,882,000	ccs
(iii)	Anti-plague Vaccine	•••	•••	•••	• • •	•••	210,000	ccs
(iv)	Typhus Vaccine	• • •	•••	• • •	•••	•••	12,000	ccs
(v)	Calf Lymph Vaccine	• • •	•••	•••	• • •	•••	15,750,000	doses
(vi)	Diphtheria prophylactic	(F	'ormal	To	oxoid)	•••	1,838,500	ccs
(vii)	Diphtheria Antitoxin	•••	•••	• • • •	•••	(3,0 3,7	000 Amp. of 10,00 798 Amp. 4,000 I	0 I.U. each. .U. each.
(viii)	Anti Tetanus		•••	•••	•••	•••	940,569	ccs
(ix)	Anti-Scorpion		•••	•••	•••		810,148	ccs

## Chapter XXIV.—Summary of the Work of the Research Institute and Hospital for Tropical Diseases

ARTICLES PUBLISHED IN THE JOURNAL OF THE EGYPTIAN MEDICAL ASSOCIATION

- (1) Report on the conference on Microbiology held at Rio de Janeiro (17-25th, September 1950): by Dr. A. Halawani.
- (2) Target cell anemia. Description of 3 cases, By Dr. Gamal Nor el Din and Dr. A. Awni.
- (3) The Causative organisms of Lobar Pneumonia in Egypt: by Dr. M.M. Dawoud and M. Elyan.
- (4) Recent advances in the Treatment of Bilharziasis Part I, by Dr. A. Halawani and Dr. M.M. Dawoud.
- (5) Recent advances in the Treatment of Bilharziasis, Part II Miracil D: by Dr. A. Halawani and M.M. Dawoud.
- (6) A Preliminary Report on Wia in the treatment of Amœbic Dysentery: by Dr. Gamal Nor el Din.
- (7) Treatment of Malaria cases with a single massive dose of the Anti-malarial Drugs. By Dr. A. Halawani and Dr. I. I. Baz.
- (8) Observations on the side effects of Miracil D: By Dr. Gamal Nor el Din and Dr. M. M. Dawoud.
- (9) Aureomycin in Intestinal Amoebiasis, A Preliminary Report: by Dr. A. Halawani, Dr. A. Abdallah & Dr. M. I. El Kordy.
- (10) Nursing Scheme at the Hospital for Tropical Medicine, London: by Atia Fahmy.
- (11) Health Security in Great Britain, Report and Observations: by Atia Fahmy.
- (12) Cardio-vascular complications in cases of Myxoedema: by Dr. Gamal Nor el Din.
- (13) Dixa-Aestivalis in Egypt: by Dr. 1. I. Baz.

### CLINICAL SECTION

During this year, 7,550 patients frequented the out-patient department. All the necessary investigations and particular research work were performed at the different sections of the Institute. Treatment for parasites and their complications was carried out both in the out-patient department and inside the hospital. 793 patients were found suffering from organic diseases.

Bilharziasis.—(1,131 cases) 6 per cent freshly prepared Repodral solution given intramuscularly in a dose of 1 c.c. per 12 Kgms. of body weight daily for 10 days. The apparent cure rate was 70 per cent on the average.

- (2) Stibophen solution in the same concentration and dose as Repodral was tried about the end of the year and no toxic effects were observed.
  - (3) Oral Miracil D was tried and the results were given in the published literature.

Ancylostomiasis.—(857 cases). Carbon tetrachloride was given in a dose of 1 c.c. per 12 Kgms. of body weight and the result was 43 per cent cures after the first dose.

Severe anaemia (Hb less than 50 per cent) was found in 33 per cent of the cases.

### Ascariasis.—(910 cases):

(1) Oil of chinopodium in a dose of 1 c.c. per 24 Kgms, of body weight was used.

44 per cent cures were recorded after the first dose.

- (2) Hexylresorcinol in a dose of 1 grm. per patient over 12 years of age was tried with 77 percent cures after the first dose and 83 per cent cures after the second dose. No toxic effects were observed.
- (3) Hetrazan tablets were tried and the subject is still under investigation, though preliminary results approximate those of Crystoids.

Taeniasis.—(62 cases). Atebrin was used in a dose of 0.9gm. for adults weighing 60 Kgms. or more.

Heterophyes.—(8 cases). Filix mas was used in a dose of 4.c.cs. for adults weighing 60 Kgms. or more. Cure rate was 100 per cent after the first dose.

Hymenolepis nana.—(65 cases).

- (1) Filix mas was used as in heterophyes.
- (2) Chloroquin is under trial.

### Amoebic Dysentery:

- (1) Enterovioform and Stovarsol tablets were used in the out-patient department.
- (2) Also Emetine was used.
- -(3) About the recent modes of treatment details are mentioned in the published literature.

### PROTOZOOLOGICAL SECTION

- (1) Trial experiments in an attempt to find some new and easy method for staining intestinal protozoa.
  - (2) Studying the effect of Aureomycin on Amœbae of intestine (Published report).
- (3) Average percentage of Ent. histolytica infection in Egypt was found to range from 30 to 85% according to our methods which are:—
  - (a) Direct smear method and staining with iodine.
  - (b) Using Hematoxyline and quircitrine.
  - (c) Cultural methods.
  - (d) Zinc sulphate flotation method.
  - (4) Use of Hydatid fluid in the diagnosis of E. histolytica.

### BIOCHEMICAL SECTION

- (1) Application of the polarograph in estimating Sb III in blood in cases of bilharzia.
- (2) Analysis of samples of D.D.T. sent from the stores of the Ministry of Public Health.
- (3) Analysis of samples of Stibophen sent from the health unit of the Ministry of Education and from the Ministry of Public Health.
  - (4) Study of the effect of alkalinity on the oxidation of Sb III.

#### BACTERIOLOGICAL SECTION

- (1) Wassermann Reaction, 739 Samples.
- (2) Agglutination test for Typhoid and Malta group. 58 Samples.
- (3) Blood Cultures, 13 Samples.
- (4) Urine Cultures, 339 Samples.
- (5) Stools, 65 Samples.

- (6) Sputum for T.B., 194 samples.
- (7) Sputum for Bilharzia Ova, 3 samples.
- (8) Smears of prostatic discharge, 11 samples.
- (9) Casoni test, 3 samples.
- (10) Hair for ring-worm, one case.

#### EXPERIMENTAL ANIMALS SECTION

- (1) Infection of gerbiles with cercaria of Schistosoma mansoni and the use of the hatching method in diagnosis.
  - (2) Maintenance of trypanosome species by passing them in mice.
  - (3) Infecting mice and monkeys with micro-filaria.
  - (4) Passing Plasmodium bergi in mice and the preparation of films and sections.
  - (5) Biological trials on the infection of gerbiles with Bilharzia.
  - (6) Biological tests of Repodral, Stibophen, Emetine and Miracil.
  - (7) Trials on the production of cancer of bladder in dogs.
  - (8) Experiments on miracidia of Bilharzia.
  - (9) Experiments on coccidiosis and the use of new lines of treatment.

#### MALARIOLOGY AND ENTOMOLOGY SECTION

- (1) 7,561 thick drop films were examined for malaria. 1.3 per cent were found positive, of which 23.3 per cent were M.T.M. and the rest B.T.M.
  - (2) 24,170 films were examined for microfilaria of which 2 per cent proved positive.
  - (3) 3,383 specimens of mosquito larvae were examined.
- (4) 124 specimens of fleas collected from rats trapped by the quarantine authorities were examined.
- (5) Visits to the research stations at Fayed, Khanka, Rosetta and Pyramids for supervision of research work on malaria, snails and filaria survey.

#### KHANKA MALARIA CONTROL STATION

- (1) Clearing drains, streams, ponds and swamps of weeds.
- (2) Spraying mosquito breeding areas with 5 per cent D.D.T. in malariol to kill larvae.
  - (3) Spraying rice cultivated areas with the above-mentioned emulsion.
  - (4) Draining some ponds in the neighbouring drains through connecting channels.
  - (5) Filling in of small ponds and swamps.
- (6) Survey of malaria incidence in villages through taking blood films, and also spraying houses with D.D.T. emulsion.
- (7) Starting examination of inhabitants for parasites in stools and urine preparatory to their treatment.
- (8) Trials on the prophylactic treatment of malaria by the use of drugs as Quinacrine, Nivaquin, Paludrine and Resochin.
  - (9) Trials on the use of some antimalarial drugs.
- (10) Starting search of drains, ponds and swamps for bilharzia snails and treating them with Copper sulphate.
- (11) 24, 905 blood films were examined for malaria, 12.6 per cent were found positive for B.T.M. and 1.4 per cent positive for M.T.M.

#### FAYED MALARIA CONTROL STATION

- (1) Clearing ponds, swamps and drains of weeds.
- (2) Spraying these places with 5 per cent D.D.T. in malariol.
- (3) Filling in of small ponds and water collections.
- (4) Spraying of house latrines with the above mentioned emulsion.
- (5) Treatment of cases of malaria, bilharzia and intestinal parasites.
- (6) 7,062 blood films were examined for malaria of which 0.62 per cent were found posittive for B.T.M.
- (7) 32 mosquito breeding areas were found of which 24 harboured A. pharoensis and 8 harboured A. sergenti.
  - (8) Treatment of areas harbouring bilharzia snails with Copper sulphate.
  - (9) Arranging for the construction of public latrines for inhabitants.

#### ROSETTA FILARIA STATION

- (1) Examination of mosquitoes and larvae in the area. The prevalent species was the C. pipiens.
- (2) The most important breeding places were the cesspits of houses, slaughter-house swamps, Wakf swamps, water tanks, wells and drains. The necessary measures were taken.
- (3) 5 per cent D.D.T. in malariol was found to be the best emulsion for eradication of larvae.
- (4) Infection rate with microfilaria was 5.71 per cent. Percentage in children was less than the year before as a result of the measures taken.
  - (5) Hetrazan was used and found effective in microfilaria positive cases.
  - (6) This type of treatment was tried on cases of chyluria and is still under trial
  - (7) Hetrazan was found of no effect on swellings of limbs.

# Chapter XXV.-Memorial Ophthalmic Laboratory

The work of the Memorial Ophthalmic Laboratory during 1950 falls, as in previous years, under 4 main categories: (1) Research, (2) Routine Pathological examinations, (3) Clinical investigations, (4) Post-graduate instruction.

(1) Research.—Field experiments on the bacteriology, epidemiology and prevention of the acute ophthalmias were continued in two groups of villages. Interest was particularly centred on the effects of fly-control in limiting the spread of these diseases and very promising results were obtained. This work is now being carried on in collaboration with the Rural Health Research Section and the Rockefeller Foundation.

Some further progress was achieved in research on the infective agent of trachoma and new technique developed for the cultivation of the virus in chick embryos, etc.

Clinical trials were carried out with some of the newer antibiotics, but so far no consistent results have been obtained in uncomplicated Egyptian trachoma.

- (2) Routine pathology.—In the course of the past year, 207 pathological specimens received from Government hospitals were reported on. Nearly 6,000 bacteriological examinations were carried out.
- (3) Clinical Department.—Many patients were referred to the Laboratory during the year for special examination, second opinion and treatment.
- (4) Post-graduate instruction.—The Director and other members of the staff of the Laboratory again gave courses of lectures and demonstrations to post-graduate students taking the D.C.M.S. of Cairo.

During 1950, many volumes were added to the reference library of the Laboratory, which now contains nearly 2,500 volumes.

# **APPENDICES**

## APPENDIX I.—Medical Permits.

TABLE NO. 168—NUMBER OF PRACTITIONERS OF THE MEDICAL AND ALLIED PROFESSIONS AT THE END OF THE YEAR 1950 AS COMPARED WITH THAT OF THE YEAR 1949.

$\operatorname{Professions}$	At the end of 1949	At the end of 1950
Medical practitioners	4,612	4797
Veterinary Surgeons	596	637
Dental Surgeons	584	591
Dentists without Diplomas* .	. 107	106 .
Pharmacists	. 1,391	1487
Midwives	. 996	1046
Asistant Pharmacists*	. 322	321

<sup>\*</sup> Permits are no longer issued to persons of these two categories.

Table No. 169—Number of persons authorised to practise their professions in Egypt during the last five years.

Professions	1946	1947	1948	1949	1950
Medical Practitioners	194	142	128	186	218
Veterinary Surgeons	28	24	1	53	42
Dental Surgeons	8	14	19	32	9
Pharmacists	62	120	77	81	98
Midwives	61	68	30	32	50
Kabela (Daya)	192	141	221	56	7
Barbers	2	7	6	2	1

TABLE No. 170.— ORIGIN OF MEDICAL DIPLOMAS WHOSE HOLDERS WERE AUTHORISED

TO PRACTISE MEDICAL PROFESSIONS DURING 1950

$\mathbf{Professions}$	Cairo	Abbassia	Alexandria	Great Britain	Greece	Switzerland	France	Lebanon	America	Italy	Poland	Austria	Germany	Turkey	TOTAL
Medicine	155	19	18	7	2	2	6	3	2	1		1	2	-	218
Veterinary Surgery	42														42
Dental Surgery	4		1					2							7
Pharmacy	81			1	2		4.	8	_		1			1	98
Midwifery	50	-		-		-	-		-			-	-	-	50

TABLE NO. 171.— NATIONALITIES OF PERSONS AUTHORISED

TO PRACTISE MEDICAL PROFESSIONS DURING 1950

Professions	Egyptians	Greeks	Americans	Saudi Arabi ns	British	Palestinians	French	Portuguese	Total
		-							]
Medical Practitioners	205	2	2	2	2	3	2		218
Veterinary Surgeons	42								42
Dental Surgeons	5				-	2			7
Pharmacists	91	5				2			98
Midwives	50	-	SPONIA-PHILIS	_	-		-	Processings	50

Table No. 172.—origin of Medical Diplomas of Egyptian practitoners who were authorised to practise medical professions during 1950.

$\mathbf{Prof}_{\mathbf{\Theta}}$ ssions	Cajro	Abbassia	Alexandria	Great Britain	Switzerland	France	Lebanon	Gormany	Turkey	Austria	Тотаг
Medicine	154	19	18	6	2	2	2	1		1	205
Veterinary Surgery	42	-		pa to			-				42
Dentistry	4		1		_		2				7
Pharmacy	78			1	_	4	7	_	1	_	91
Midwifery	50	_	_	_	_	_		-	-		50

Table No. 173.—Result of the State Examination Held During 1950 for Medical Practioners, pharmacists and dental surgeons holding foreign diplomas for the purpose of recording their names in the Ministry's Register.

		Egyp	TIANS	Forei	GNERS	TOTAL		
Examination	Number	Succeeded	Failed	Succeeded	Failed	Succeeded	Failed	
Medicine	. 24			2	22	2	22	
Pharmacy	9		_	3	6	3	6	
Dentistry	14	2	2	3	7	5	9	

# Appendix II.—Report on the work of the Central Medical Commission and the other Governorate and Provincial Medical Commissions during the Year 1950

The Central Medical Commission:

The number of medical certificates issued by the Central Medical Commission during 1950 was 35,794 *i.e.* 3,812 certificates more than 1949, in spite of the extension of the attributions of the Medical Commissions in Governorates and Provinces to cover the granting and approval of sick leaves up till 60 days and the invaliding out of service of temporary officials and hors cadre employees and daily paid staff without further reference to the Central Medical Commission for final sanction.

Of this number 20,444 candidates for government service or educational missions abroad were examined by the Central Medical Commission. These consisted of 13,422 candidates for permanent or temporary posts, 336 for educational missions and 6,686 hors cadre posts.

62.11 per cent of the first group and 47.18 per cent of the last group passed the medical examination. Of the 37.89 per cent failures in the first group, 27.57 per cent failed in vision, myopia accounting for most of them; 4.5 per cent for defects of the urinary system, albumin or traces thereof being the main cause; 1.26 per cent for heart diseases with incompetency of the heart as the main complaint and 4.5 per cent for other diseases, e.g. varicoceles, hydroceles not treated or removed by operation, deformation, debility or respiratory diseases. Of the 52.82 per cent failures in the last group, 41.84 per cent failed in vision-Myopia accounting for most of them; 5.08 per cent failed in urine-albumin or traces thereof being the main cause; 0.86 per cent for heart diseases with incompetancy of the heart as the main complaint and 5.04 per cent for other diseases, e.g. varicoceles, hydroceles not treated or removed by operation, deformity, debility, flat foot or respiratory diseases.

A total of 10,205 medical certificates dealt with leaves granted to government officials reporting sick. These consisted of 7,415 pensionable and temporary officials and 2,790 hors cadre employees.

Of those granted sick leaves by the C.M. Commission or by the Cairo Medical Officers of Health and approved by the C.M. Commission, 4,130 permanent and temporary officials and 1,204 hors cadre employees were found suffering from medical diseases, and 1,675 P. and T. officials and 634 H.C. employees suffered from surgical and ophthalmic diseases.

Herebelow are the diseases accounting for the sick leaves and the ratio of their prevalence:

Table No.174

Diseases	,			nable and y Officials	Hors Cadro	e Employees
	7		Number	Percentage to the Total	Number	Percentage to
				%		%
Nose and Larynx	•••	•••	346	6.27	777	4.19
Bronchi and Lungs	• • •	•••	. 423	6.29	112	6.09
Heart and Blood Circulatory System	•••	•••	567	9.77	48	2.62
Stomach and Intestines	•••	•••	137	2.26	36	1.96
Liver	•••	•••	465	8.01	78	4.24
Kidneys and Cystis	• • •		267	4.60	62	3.37
Neurasthenia	•••	•••	93	-1.60	1	0.05
Mental Diseases	•••	•••	264	4.55	253	13.77
Nervous system	•••		183	3.12	29	1.58
Anaemia and General Debility	•••	\	322	5.55	97	5.28
T.B	•••	•••	476	8.19	276	15.02
Syphilis	•••	•••	-	Normania	3	0.16
Rheumatism	•••	•	470	8.10	98	5.33
Fevers	•••	•••	66	1.14	31	1.69
Other Medical Diseases	•••	•••	33	0.57	3	0.16
Eye Diseases	•••	•••	147	2.53	35	1.91
Ear Diseases	•••	•••	44	0.76	9	0.49
Appendicitis	•••	•••	78	1.34	52	1.83
Hernia	•••	•••	62	1.07	17	0.91
Fistulas	•••		83	1.43	14	0.76
Piles		•••	99	1.71	30	1.63
Hydroceles	•••	•••	16	0.27	5	0.27
Urinary System and Stones	•••	•••	76	1.31	26	1.41
Various Other Surgical Operations	•••	•••	806	13.88	350	19.05
Fractures	•••	••	195	3.36	<b>7</b> 8	4.24
Dental Diseases	•••	••	69	1.10	18	0.98

48,017 officials and employees were granted from 1-10 days sick leaves by District Markaz or Out-post medical officers in all the Governorates and Provinces Of these, 37,217 or 77.5 per cent suffered from medical diseases, 7,590 or 15.8 per cent suffered from surgical diseases and 3,210 or 6.7 per cent suffered from ophthalmic diseases.

The total number of days sick leave granted to the P. and T. officials only amounted

to 214,126.

1,477 P. and T. officials and 527 H.C. employees in Cairo only were granted from 1-10 days sick leave by the C.M. Commission or by Cairo Medical Officers of Health.

- 637 Permanent and Temporary officials and 173 Hors Cadre employees were examined by the C.M. Commission but were not granted any sick leave.
- 1,107 P. and T. officials and 1,186 H.C. employees were examined by the other Governorate and Provincial Medical Commissions but were not granted any sick leave.
- 4,328 P. and T. officials and 1,311 H.C. employees were granted from 11-30 days sick leave and over by the C.M. Commission and by Cairo Medical Officers of Health.
- The C.M. Commission granted 29 P. and T. officials longer sick leaves terminating by their retirement on pension; and pronounced 138 H.C. employees medically unfit for further service.
  - 21 P. and T. officials and 30 H.C. employees were pronounced fit for further service.

## Medical Examination of Private and Passenger Pilots:

Of 204 candidates for private pilot licence "A" examined by the C.M. Commission, 134 were found fit (112 in the first exam., 19 in the second and 3 in the third). 70 of 75 failures were examined once, 11 twice and 4 three times.

Of 25 candidates for passenger pilot licence "B" examined by the C.M. Commission, 23 were found fit (21 in the first exam. and 2 in the second). One of the failures was examined once and the other twice.

Out of 191 private pilots examined for renewal of licences, 178 were found fit (146 in the first exam., 32 in the second). 13 were found unfit (11 in the first exam. and 2 in the second).

Out of 151 passenger pilots examined for renewal of licences, 145 were found fit (142 in the first exam., 2 in the second and 1 in the third). 6 were found unfit (5 in the first exam. and 1 in the second).

#### Governorates and Provincial Medical Commissions:

A total of 54,893 medical certificates were issued by the Governorate and Provincial Medical Commissions *i.e.* an increase of 5,136 medical certificates over those of last year.

186,8

H.C.

LatoT 614.9 P. & T. 112,8 909.1 Causes of Rejections of Candidates applying for Entry to Service H. C. 265' I 103 766 Other Systems 243 P. & T. 98F 88 H. C. THE WORK OF THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS DURING THE YEAR 1950. 21 21 System Ovite9giQ P. & T. Ĭ. H. C. 8 8  $\mathbf{H}$ System Nervous P. & T.  $\overline{S}$ 3 H. C. 691 69817 System Circulatory. P. & T. 141 13181 H. C. 867 17 342 System Respiratory 01 P. & T. 071 120 H. C. 998.2 314 3.180 System VIPH'IU P. & T. 0.79 097 088 H C. 86/ 7 619 6 112.317 noisiV $\mathbf{Defective}$ 1.134 P. & T. 3 455 986.1 Tota) **連87・08** £1 833 189.68 910 6 H' C' 998Examinations 5 13 19 Саяев P. & T. 2.117 003219 8 H C' 61 II30 P. & T. 1,329 1 .350 egA to н. с. 175.1 299 900 % Determination P. & T. 23 53 85 For Invaliding н. с. 30 940 · I 1.105 Fit 'J. क 'त ç 12 97 Unfit H. C. 877 · I 881 982 1 P. & T. 67 21 20 Objects of Medical Examination Refused H. C. 98I · I 1.329 173 For Sick Leave Number of Cases P. & T. **₹37** 701.1 1.244 Granted 219,2 H. C. 7,383 10.000 P. & T. 846.9 606.7 188.41 noiseed bas  $\ddot{\mathbf{G}}$ Candidates for Missions ç Rejected in noisse Salian ₽8 34 Rejected in ANNUAL REPORT ON 4gun 69 62 Fit 888 828 For Admission into Service Junu Hors 183.8 ₱98·8I 17.385 E!t 3.155 13.672 16.827 noisseZ bn2 Pensionable and 94 978 126 Rejected in noises Jal \$22₫ 8,309 3.233 Tem TABLE No. 175.**t**hau 291.2 1,207 096 069 • 1 266,6 Ŀit 8 • 304 Central Medical Commission Provincial and Governorate · Medical Commissions

NB.-P. = Pensionable, T. = Temporary. H.C. = Hors (adre

11.282

13 82<del>1</del>

TABLE NO. 176. - CLASSIFICATION OF DISEASES CONTRACTED BY OFFICIALS AND EMPLOYEES FOR WHICH SICK LEAVES WERE GRANTED BY THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS AND BY THE DISTRICT MOS H. IN CAIRO AND APPROVED BY THE C.M.C. DURING THE YEAR 1950.

1				о н	F89	SFS'2	286 Z	7
			JATOT.	P. & T.	1,635	1'282	09%,8	
		=	Dental Denases	H' C'	18	19	62	
			20170001-	H. C.	8 <b>2</b>	714	<del></del>	
	an 1	10	Еотизант	T & .4		061	282	
	iseas	6.	LasignuS nadiO snoiltraaqO	P. & T.	908	750.1	778,1	
	ic D	00	Band Stones	H' C'_	97	011	981 848,1	
	ha'm		Urinary System	H. C. T.	94	158	108	
	Ophtha'mic Diseases	7	49l990abyH	P. & T.	91	50	13	
		9	Pilus	P. & T. H. C.	30	160	061	
	Surgical and	10	Fistulas	H, C.	<u>66</u>	<del>16</del> <del>16</del>	801	
	Surgi		I with the state of the state o	P. & T.	88	99	611	
		4	віпл9Н	P. & T. H. C.	71	17	114	
		62	sinoibneqqA	H' C'	23	96	LH	
			1	H. C.	$\frac{8L}{6}$	89	821	
		23	Et Biseas 18	T. & .9	†7	66	139	
		-	Eye Diseases	P. & T.	2£1	1487	618	
				H. C.	162.1	2 0 10	6,250	
			Torat	T & .9	0.1.2	6,330	095,01	
			seassi(]	H C	8	<u> </u>	200	
		15	Other Medical	P. & T.	33	988	614	
		#	Fevers	P. & T.	99	817	384 384	
80 82 80		13	Rheumatism	H. C.	86	187	678	
田田				H C.	8	52 <u>440,1</u>	82 F12'1	
D 1 8		12	silidqy2	P. & T.		8	8	
		=	T. B.	P. & T. H. C.	925	355	189	
	00		General Dobi ity	II: 0: II	26	024	198	
	Diseases	2	has nimeraA	P. & T.	355	978	891.1	
		6	Cereb and Cord)		67	34		
	Medical	-	Nervous System	н. С.	183	<u>∠₹</u>	524	re.
	Mec		Mental Disenses	P. & T.	₹9₹		172	Hors Cadre.
		7	Neurasthenia	P. & T. H. C.		124	351	Hors
		9	Cystis	H. C.	79	792	359	1
			Kidneys and	1 .0 .11 q	87	183	192	H.C
		IQ.	Livet	A. T. H. C.	291	Igt	916	
		4	Stomach and Lineshines	P. & T.	98	804	258	ry.
		-	System for blood		84	2+2	06%	Temporary.
		63	Heart and Cir.	P. & T.	499	110	9.48	Теш
		63	Bronchi and	P. & P.	428 	200,1	861-1	1
		_	and Laryna	H. C.	14	530	913	T.
			980 M	T & .4	l ₹98 g	293	NAS .	8
					nissic	orate		lden
					Oommission	Commissions		Pensionable
						Cro	Torel	
					<b>Medi</b> ca≀	Send		-P.
					W.	vincial Modical		N BP.
					Central	Provincial and Governorate Medical Commissions		7
					Cen	4		ا

## Appendix III.—Report on the Work of the Central Stores

The Central Stores continued to supply new and old units with the most modern apparatus, equipment and drugs. During the year under review, the following new units were furnished and equipped:

- 2 Ancylostoma branches at Desouk and Nag Hammadi.
- 1 Mobile unit for the Frontier Districts Medical Section in the Eastern Desert.
- 5 Hospitals at Teh el Baroud, Maghagha, Hehya, Mallawi and Shukri Pasha, Manchiet el Bakri.
- 4 Chest Diseases Dispensaries at Zagazig, Shebin el Kom, Damanhour and Mallawi. Two stationary mass radiography units were installed at Mubtadayan and Alexandria Chest dispensaries.
- 1 Bacteriological Laboratory at Damanhour.
- 2 Leprosy clinics at Beni Suef and Beba.
- 2 Ophthalmic branches at Behout and Teh el Baroud.
- 4 Bilharzia Control inspections at Shebin el Kom, Tanta, Fouadia West at Kafr el Sheikh and Fouadia East at Belqas.
- 5 Health Offices at Abu Hommos, Samsatal Wakf, Awlad Gabara and Mehres.
- 3 Fever hospitals at Fareskour, Tahta and Kafr el Dawar.
- 6 Child Welfare units at Tema, Dekernis, Etsa, Abshaway, Kalaa and Ismailia.
- 17 Health centres at Teta (Menoufia), Faroukia (Qaliubia), Bisentiwai (Behera), Menshat el Kurdi (Gharbia), Kom el Dirby, Negiar and Kafr Ghanam (Dakahlia), Tel el Kebir, Singha, Basateen Barakat, Shubak Basta and Akhaiwa (Sharkia), Tamia and Matar Tares (Fayoum), Atawla (Assiut), Sheikh Marzouk (Gerga), and Kift (Qena).
- 43 Public baths at Mehallet Marhoum (Gharbia), Saadiyeen and Mit Yazid (Sharkia), Mashtoul el Kadi and Hilmia (Fouadia), El Mai, Shubra Bas, Shatanouf, Shanshour Agaiza, Kafr Rabie, Shuhada, Menouf I, Menouf II and Tanbadi (Menoufia), Balaks, Tanan, Musturod and Manadil (Qabliubia), Birkash, Menshat el Bakari, Bani Magdal, Ikhsas el Kiblia, Badrashain, Basateen, Abu Suer and Sakkara (Giza), Bosh, Miana el Galabia, Maimoun and Ashmant (Beni Suef), Defno, Tatoun, El Gharak, El Robe and Kasr el Gibali (Fayoum), Bergaya (Minia), Gerahia (Qena), Nag el Hasa (Aswan), and Balsafoura and Edfo (Gerga).

TABLE NO 177.— CONTRACTS CONCLUDED DURING THE YEAR.

Type of Work	Number
Questions submitted to Contracts Board	1,032
Meetings held by Contracts Board	140
General Adjudications	291
Tenders submitted in general adjudications	1,347
Local adjudications	91
Tenders submitted in local adjudications	191
Contracts	595
Agreements	4
Local orders	85
Foreign orders	16
Forms 50 c. g	3,287
Purchases by Negotiation	, 50

#### TABLE No. 178.—SUMMARY OF ACTIVITIES DURING THE YEAR.

Receipt Vouchers       11,316         Issue Vouchers, free of charge       57,983         Issue Vouchers, against payment       3,049         Claims       1,388         Outward correspondence       187,099         Inward correspondence and forms       173,940         Postal parcels dispatched       2,331         Railway consignments received       1,697         " parcels dispatched       37,554         Repairs carried out by Workshops       84,396         New works       ", ", ", ", "	Type of T	Number							
	Issue Vouchers, free of charge Issue Vouchers, against payment Claims								57,983 3,049 1,388 187,099 173,940 13,770 2,331 1,697 37,554 84,396

# Appendix IV .- Budget Credits and Details of Posts

## Central Admnistration

Table No. 179.—Budget Credits

	Budget	Gran s	Actual Ex	penditures
Titles	1949	1950	1949	1950
TITLE I	L.E.	L.E.	L.E.	L.E.
Salaries, Wages and Allowances	1,046 503	953,541*	929,718	877,619
TITLE II				
General Expenditures	1,203,400	1,720,050‡	1,219,092	1,693,745
TITLE III				
New Works	846,000	798,250	513,290	635,577
Total	3,095,903	3,471,841	2,662,100	3,206,941

<sup>\*</sup> This sum includes L.E. 2,500 representing salaries, wages and allowances of Museum of Hygiene inserted under item 19 (Chapter 2.)

DETAILS OF POSTS

· Posts	1949	1950
Permanent Posts:		
Senior Technical and Administrative Posts Intermediate Technical Posts Clerical Posts	894 760 734	868 725 705
Technical Posts	$\begin{array}{c} -\frac{1}{232} \\ 5,369 \end{array}$	
'l'OTAL	7,989	7,642

<sup>‡</sup> This sum includes an additional credit of L.E. 575,000 granted under Law No. 30 of 1951.

# Medical Treatment Department

TABLE No. 180.—BUDGET CREDITS

1949			
1949	1950	1949	1950
431,645	475,800	358,572	399,362
786,000	660,400	622,132	659,843
319,300	504,500	39,686	139,807
1,536,945	1,640,700	1,020,390	1,199,012
	786,000 319,300	786,000 660,400 319,300 504,500	786,000 660,400 622,132 319,300 504,500 39,686

## DETAILS OF POSTS

Posts	1949	1950
Permanent Posts:  Senior Technical and Administrative Posts Intermediate Technical Posts	638 2 <b>7</b> 3 161	667 291
Clerical Posts	101	174
Technical	43 45 3,668	143 48 3,766
Total	4,828	5,089

## Preventive Medicine Department.

## Table No. 181.—Budget Credits

$\operatorname{Titles}$	Budget	Grants.	Actual Ex	xpenditures
Titles	1949	1950	1949	1950
TITLE I				
Salaries Wages and Allowances	606,590*	588,660	579,799	587,599
TITLE II				
General Expenditures	400,000	419,000	298,484	404,892
TITLE III				
New Works	81,300	117,700	12,759	81,110
Total	1,087,890	1,125,360	891,042	1,073,601

<sup>\*</sup>An additional credit of L.E. 83,000 was granted by law No. 157 of 1949

## Details of Posts

Posts	1949	1950
Permanent Posts :	<u> </u>	
Senior Technical and Administra-		
tive Posts	322	356
Intermediate Technical Posts	435	516
Clerical Posts	323	420
Temporary Posts:		
Technical Posts		
Clerical Posts	95	103
Hors Cadre Personnel	2,518	2,914
TOTAL	3,693	4,309

# Appendix V.-International Health

#### WORLD HEALTH ORGANIZATION

## World Health Assembly:

The World Health Assembly held its Third Session in Geneva during the period 8-27 May, 1950, where Egypt was represented by a delegation composed of:

Late Dr. M. K. Abdel Khalik, Bey, the ex. U.S.S. of the Ministry ... President

#### Executive Board:

Egypt's membership in the Executive Board ended on May 1950 whence the Board became composed of representatives of the following member states:

Republic of the Philippines, Sweden, Turkey, Venezuela, United Kingdom, United States of America, Chile, Italy, Salvador, France, Pakistan, Thailand, Brazil, India, Netherlands, Poland, Union of South Africa and Yugoslavia.

## Regional Committee:

The Regional Committee for the Eastern Mediterranean held its Third Session in Istamboul during the period 4–7 September 1950, followed by a Regional Conference on Health Statistics. An Exhibit of Public Health Education Material from Egypt was also held during that Session.

Egypt was represented in these meetings by a delegation composed of seven members

#### Expert Committees:

The WHO issued several Technical Report Series of its Experts Committees which were distributed to the Departments and Sections concerned for necessary action.

The following Experts Committees were attended by Experts from Egypt:

#### Table No. 182

Name of Experts Committee	Place	Session
Committee on Unificatian of pharmacopæia	New-York Geneva	20-29/4/150 11-16/9/50- 9-18/10/50

Nomination, of Egyptian Experts for surveys and studies abroad.

Dr. M. A. K. El Dalgamouny, Director, Leprosy Section of the Ministry was seconded to the WHO for training the Ethiopian Health Authorities on the methods of treating leprosy by Sulfetrone.

## Egypt's Contribution to the WHO Budget:

Egypt's contribution for 1950 amounted to \$ 55,773 and was paid on May 3, 1950.

## World Health Day:

The Ministry celebrated the World Health Day on April 7, 1950, being the anniversary of the ratification of the WHO Constitution by 26 Members of the United Nations on April 7, 1948.

Principal Activities of International Organizations in Egypt during 1950:

- (1) The Mass B.C.G. Vaccination Campaign continued in Egypt the whole year with the assistance of the United Nations International Children's Emergency Fund and the Danish Red Cross.
- (2) Arrangements have been taken for the establishment at Tanta in 1951 of a Venereal Diseases Control Demonstration Centre with the cooperation of WHO.
- (3) The Ministry agreed to apply in Egypt the Sixth Revision of the International List of Diseases and Causes of Death (WHO Regulations No. 1) as from January 1, 1951.
- (4) Some experts came to Egypt and discussed with the Ministry some health problems.
- (5) A Nutrition Training Centre for the Middle East was established in Cairo on October 1, 1950 with the cooperation of WHO & FAO. The course lasted for 3 months and was attended by candidates from the countries of the Region.
- (6) WHO supplied the Ministry with many publications and teaching equipment which were distributed to its Departments.

## Conferences

The following are the conferences held in 1950 and were attended by representatives of the Ministry:

Table No. 183

Name of Conference	Place	Date
Permanent Committee of the "Office International d'Hygiene	Geneva	E 6/5/50
Publique	London	5- 6/5/50 17-21/7/50
Fifth International Cancer Congress	Paris	17–22/7/50
VIth International Pediatric Congress	Zurich	21-31/7/50
VIth International Congress of Radiology	a- London	23-29/7/50
Congress of the International Union against Venereal Diseases	Zurich	29/7-1/8/50
Fifth International Congress of Microbiology	Rio de Janeiro	17-24/8/50
Ist International Congress of Heart Diseases	Paris	3- 9/9/50
XIth Conference of the International Union against Tuberculosis	Copenhagen	3- 6/9/50
Ist International Congress of Chest Diseases Specialists	Rome	15-19/9/50
International Congress of Psychiatry	Paris	18-27/9/50
Symposiem on Tropical Medecine	Beirout	18–19/9/50
2nd United Nations Social Welfare Seminar for the Arab States	Cairo	22/11-14/12/50

#### FELLOWSHIPS

The following fellowships were awarded in 1950 at the expense of WHO or UNICEF:

TABLE No. 184

Subject Study	Country of study	Time
Sanitary Engineering	U.S.A	July 1950.
,, ,,	<b>,,</b>	July 1950.
V.D. Control	U.S.A	9 months from, 8/10/1950.
Social and Economical Aspects of T.B	Denmark, England and U.S.A	5 months from 15/1/1950.
Pediatrics	France	4 months from 1/3/1950.
<b>;</b> , ;·· ··· ;;; ···	,,	4 months from 1/3/1950.
	Stockholm	2 months from 1/9/1950.

#### Conventions

- (1) On August 25, 1950, an Agreement was concluded between the Government of Egypt and the World Health Organization for the provision of Services by WHO in Egypt. It was promulgated by Law No. 174 of 1950 and Decree of January 23, 1951.
- (2) On September 12, 1950, an Agreement was concluded between the Government of Egypt and the United Nations Relief and Works Agency for Palestine Refugees in the Near East. It was promulgated by Law No. 175 of 1950.

Appendix VI.—Summary of Report on the State of Public Health in Alexandria. TABLE NO. 185.—AGE AND SEX DISTRIBUTION OF BIRTHS AND DEATHS ACCORDING TO QISMS.

	TOTAL	Female	1,157	288	089	828	139	10 00 10	85	848	827	1,056	1,324	301	463	10,511
	T	Male	1,243	301	811	1,252	889	291	827	812	825	1,195	1,363	948	486	11,342
	35 years	Female	209	09	130	120	102	81	113	80	80	136	253	112	64	1,546
	Over 65	Male	233	47	150	168	61	72	114	82	86	130	253	66	61	9000
	years	Female	22	18	. 44	142	27	22	55	54	35	94	189	09	17	814
	45—65	Male	111	39	88	323	. 37	34	59	74	49	125	237	85	39	1,300
D.e. th.8	years	Female	45	15	28	181	51	21	44	40	22	103	102	37	30	719
D.C	16—15	Male	. 62	20	52	342	45	28	53	37	36	141	120	-81	34	1,051
	years	Female	26	<del>-</del>	13	40	13	14	19	22	21	49	18	1	<b>∞</b>	254
	5-15	Male	22	70	18	52	61.	16	16	16	15	29	33	Iŭ	11	3000
	years	Female	255	61	175	115	169	163	220	216	249	301	253	267	117	2,561
	1-5_1	Male	237	54	191	131	151	144	209	-212	243	332	230	223	110	2,467
	one year	Female	545	140	284	227	377	284	384	431	450	373	209	418	227	4,617
	Under o	Male	578	136	311	236	375	293	376	391	668.	400	490	445	231	4,663
	Births	Female	23	က	າຕ	142	130	67	19	ıĠ	15.	41	92	က	∞	442
	Still I	Male	33	က	မဲ့	127	175	4	36	1	24	52	99	9	17	10 10 00
Births	irths	Female	2,816	306	1,626	1,736	2,611	1,322	1,903	2,433	2,018	2,540	3,014	2,348	1,069	26,144
	Live Births	Male	3,062	750	1,650	1,720	2,868	1,338	1,916	2,315	2,065	2,614	3,247	2,413	1,145	27,103
	Qisms		Gumrok	Manshiet	Labban	Attarine	Mina El Basal I	II	Karmouz I	" п "	., III	Moharram Bey	Hadra	Raml I		TOTAL

Table No. 186.—Age and Sex Distribution of Infectious Diseases Cases and Deaths
in Alexandria 1950

	×	0- Ye		l– Ye	-5 ars		-15 ars		-25 ars		-45		-65	65 ov		Тот	AL
Disease	Sex	Cases	Deaths	Cases	Deaths	Cases	Dehs	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Typhus  Encephalitis  Leprosy  Puerperal Fever Cerebro Spinal Fever  Rabies  Scarlet Fever  Tetanus  Acute Poliomyelitis Undulant Fever  Whooping Cough Chicken Pox  Diphtheria  Malaria  Parotitis  Erysipelas  Dysentery Bc  Dysentery Amce.  Influenza  Measles  Paratyphoid A&B Typhoid  Tuberculosis  Tuberculosis  T.B. of other organs  Granular Meningitis  Granular Meningitis  Granular Meningitis	MFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMF	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		- $        -$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3 1 — — — — — — — — — — — — — — — — — —		1 2 9 10 7 1 - 1 11 2 2 2 77 70 14 11 16 4 102 47 1 - 4 1 17 13 30 18 52 14 138 37 8 3				5 2 3	1       1       2       1       1       1       1       1       1       1       1       1       1       2       1       1       2       2       1       2       2       2       3       4       3       2       3       4       3       3       4       3       4 <t< td=""></t<>

. 4.

# Appendix VII. - Report on the Work of Cairo City Health Department

## Population:

The estimated mid-year population of Cairo City in 1950 was 2,266,900. Table No. 187 gives the distribution of this population in the different Qisms.

TA	BLE No. 18	37	
Qi	${ m sm}$		Population
Qubba Heliopolis Zeitoun	• •••		91,000 90,600 87,500
Abbassia Ezbekia Rod el Farag	• • • • • • • • • • • • • • • • • • • •	•••	133,000 107,900
Shubra Sharabia	• • • • • • • • • • • • • • • • • • • •	•••	$   \begin{array}{c}     183,700 \\     121,400 \\     77,000   \end{array} $
Gamalia Bab el Shaaria Abdin	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	$   \begin{array}{r}     118,000 \\     131,600 \\     93,300   \end{array} $
Mouski Darb el Ahmar Khalifa	***	•••	77,600 $114,300$ $124,900$
Sayeda I Sayeda II Boulag I	• •••	•••	108,500 $99,500$ $68,000$
Boulaq II Adawia Old Cairo		•••	75,500 68,700 110,400
Helwan Maadi Hadayeq Shubra		•••	49,500 46,000 89,000
Trongey Diama	TOTAL		2,266,900

## Births:

The total number of births, excluding still births, recorded during the year was 112,448 or 9,402 more births than the previous year and a birth rate of 50.06 per 1,000 of population. Table No. 188 gives the distribution of births according to *Qisms* and their rates per 1,000 of population.

Still births registered during the year totalled 2,000 or 17.62 per 1,000 births as against 1,876 and 18.02 in 1949; 1,831 and 18.4 in 1948 and 2,081 and 18.39 in 1947.

#### Deaths:

A total of 52,184 deaths were recorded during the year. Of this number, 1,512 were non-residents of Cairo City and 2,000 were still births. This leaves 48,672 deaths for Cairo proper, or 1,094 deaths less than last year, and a death rate of 21.47 per 1,000 of population as against 22.7, 25.1, 27.5 and 33.7 in 1949, 1948, 1947 and 1946 respectively.

Table No. 188 gives the distribution of deaths and death rates on the various Qisms.

## Infantile Mortality:

The total number of infantile deaths under one year of age was 20,269 or 178.6 per 1,000 live births as against 183 in 1949, 191 in 1948, 161 in 1947 and 200 in 1946.

Infantile deaths constituted 41.6 per cent of total Cairo deaths as against 38.2 in 1949, 38.1 in 1948, 39.3 in 1947 and 36.6. in 1946.

#### Causes of Infantile Deaths:

Diarrhoea and enteritis continue to be the main causes of infantile deaths, having accounted for 11,539 deaths out of a total of 20,269 infantile deaths or a ratio of 56.9 per cent. Next comes Debility accounting for 5,991 or 29.6 per cent, and respiratory system diseases accounting for 1,613 or 7.9 per cent (excluding deaths from pneumonia). Other diseases accounted for 593 deaths or 2.9 per cent, while infectious diseases accounted for 533 deaths or 2.6 per cent.

## Death Inquiries:

Qism medical officers of health examined 6,739 uncertified deaths and Qism midwives examined 16,665.

## Infectious Diseases:

The number of cases of infectious diseases reported in Cairo City was 18,455 or 8 per thousand of population as against 18,406 in 1949, 14,793 in 1948; 14,413 in 1947 and 29,196 in 1946. Deaths from infectious diseases numbered 4,157 or 7.9 per cent of total Cairo deaths, as against 9.9 per cent in 1949; 9.6 in 1948 and 1947 and 11.5 per cent in 1946.

Tables Nos. 190 and 191 give the number of cases and deaths of infectious diseases in Cairo City and the distribution of the more prevalent diseases in Cairo Qisms together with the case and death rates.

#### Cholera:

No cases or deaths were notified during this year nor the previous year, which shows that the control measures taken were effective in exterminating the disease.

#### Relapsing Fever:

No cases or deaths were reported during this year, nor the two previous years. Thus the epidemic which broke out in 1945 disppeared in 1947, thanks to the control measures adopted including the regular D.D.T. dusting of the poorer quarters. 2,452,904 persons were dusted with D.D.T. during the year.

#### Small Pox:

One case with no deaths was notified this year as against 2 cases and no deaths in the previous year.

#### Anti Small Pox Vaccination:

The 4 year anti small pox general vaccination was started in 1946 by house to house teams. Persons vaccinated numbered 286,715 in 1946, 645,764 in 1947, 552,074 in 1948 and 321,501 in 1949. This completes the vaccination of the whole population of Cairo and amounts to 1,806,054.

During this year 188,020 persons were vaccinated at Shubra Gardens, Qubba, Heliopolis, Darb el Ahmar, Sayeda I and II, and Mouski Qisms. Another 151,988 persons attending hospitals were also vaccinated bringing the total vaccinated during the year to 340,088 persons. New born infants vaccinated at the public health offices numbered 108,184.

# Typhus:

32 cases with two deaths were reported or a ratio of 0.014 and 0.0008, respectively per thousand of population and a case-mortality rate of 6.25 per cent, as against 13 cases and no deaths and a ratio of 0.006 in 1949, 30 cases and no deaths and a ratio of 0.014 in 1948 and 49 cases with 10 deaths and a ratio of 0.031 and 0.016 respectively per thousand in 1947.

#### Typhoid:

3,711 cases with 359 deaths were reported or a ratio of 1.6 and 0.158 per thousand of population and a case mortality rate of 9.16 per cent, as against 4,066 cases with 360 deaths and a ratio of 1.9 and 0.16 respectively in 1949 and 2,581 cases with 293 deaths and a ratio of 1.23 and 0.14 in 1948.

Persons inoculated against typhoid numbered 294,295 receiving the first injection and 149,117 receiving the second injection.

Children between 1 and 5 years immunised against typhoid numbered 179,290 receiving the first injection and 145,432 receiving the second injection.

## Diphtheria:

530 cases with 117 deaths were notified this year or a ratio of 0.233 and 0.05 respectively per 1,000 of population and a case-mortality-rate of 22.07 per cent; as against 818 cases with 155 deaths in 1949 and 944 cases with 189 deaths in 1948.

Children immunized against diphtheria numbered 85,070 receiving one injection, 78,616 receiving two injections and 76,751 receiving three injections.

#### Measles:

585 cases with 230 deaths were reported this year or a ratio of 0.258 and 0.1 respectively per 1,000 of population and a case mortality-rate of 39.3 per cent as against 1,711 cases with 682 deaths in 1949 and 1,979 cases with 1,209 deaths in 1948.

## Cerebro Spinal Fever:

1,274 cases with 167 deaths were reported or a ratio of 0.56 and 0.07 respectively per 1,000 of population and a case-mortality-rate of 13.1 per cent as against 133 cases and 41 deaths in 1949; 39 cases with 9 deaths in 1948 and 72 cases with 21 deaths in 1947.

## Scarlet Fever:

10 cases with no deaths were reported as against 7 cases in 1949, 4 cases in 1948 and two cases in 1947.

### Influenza:

2,777 cases with 9 deaths were reported or a ratio of 1.22 and 0.003 respectively per 1,000 of population and a case-mortality rate of 0.032 per cent as against 2,148 cases with 12 deaths in 1949; 1,345 cases with one death in 1948 and 1,421 cases with two deaths in 1947.

#### Tuberculosis:

3,583 cases with 1,683 deaths were reported or a ratio of 1.58 and 0.74 respectively per 1,000 of population and a case-mortality-rate of 46.9 per cent as against 3,581 cases with 1,607 deaths in 1949; 3,508 cases with 1,568 deaths in 1948 and 2,232 cases with 1,483 deaths in 1947.

#### Deaths Attributed to Confinement:

95 maternal deaths were attributed to confinement this year or a ratio of 0.837 per thousand births as against 64 in 1949 and 88 in 1948.

Of these deaths, 13 were due to puerperal fever or a ratio of 0.11 per 1,000 births as against a ratio of 0.11 in 1949; 0.39 in 1948 and 1.47 in 1947.

82 mothers died within a fortnight of confinement (excluding puerperal fever deaths) as against 93 in 1949, 63 in 1948 and 106 in 1947. The causes of these deaths were as follows: 1 Thrombosis, 1 Caesarian operation, 1 peritonitis, 1 intestinal paralysis, 2 uremia, 3 placenta praeva, 4 abortion, 4 heart failure, 5 toxaemia, 8 nervous shock after difficult labour, 9 rupture of uterus, 13 eclampsia, 30 haemorrhagy and 13 puerperal fever.

#### Disinfection:

Besides the dusting with D.D.T. of persons, beddings and effects in the poorer quarters as referred to in connection with relapsing fever, 2,452,904 persons, 110,035 rooms and 427,929 articles were disinfected by Cairo disinfecting stations.

TABLE No. 188.—VITAL STATISTICS OF CAIRO CITY FOR 1950 DISTRIBUTED ACCORDING TO QISM8

Cairo Districts (Qisms)	Population	No. of Deaths	Death Rate per 1000 of pop.	No. of Births	Birth Rate per 1000 of pop.	No. of deaths  Below  One year	infantile death Rate per 1000 births
Qubba	91,000	4,892	53.758	1,998	21.945	905	184.9
Heliopolis	90,600	2,399	26.479	1,200	13.245	362	150.8
Zeitoun	87,500	5,079	58.045	2,193	<b>2</b> 5.062	893	175.8
Abbassia	133,000	6,992	52.571	2,545	19.135	864	120.9
Ezbekia	107,900	4,207	38.989	1,850	17.145	672	159.7
Rod el Farag	183,700	8,269	45.013	3,509	19.101	1,570	189.8
Hadayeq Shubra	89,000	5.306	59.617	2,146	24.112	975	183.7
Shubra	121,400	6,791	55.939	2,428	20.0	1,022	150.4
Sharabia	77,000	5,299	68.818	2,114	28,103	1,059	199.8
Gamalia	118,000	6,355	53.857	2,798	23.711	1,171	184.2
Bab el Shaaria	131,600	5,434	41 · 291	2,254	17.127	884	162.6
Abdin	93,300	3,010	32.261	1,583	16.966	514	170 7
Mouski	77,600	3,093	39.858	1,277	16.452	531	171.6
Darb el Ahmar	114,300	5,533	48.407	<b>2</b> ,556	22.362	1.073	193.9
Khalifa	124,900	6,554	52.473	3,265	26.140	1,411	215.2
Sayeda I	108,500	6,598	60.811	2,683	24.728	1,088	164.8
" II	99,500	3,951	39.708	1,876	18.854	891	186.4
Boulaq I	68,000	2,836	41 · 558	1,687	24.808	660	232.7
,, II	75,500	3,652	48,370	1,578	20.900	681	186-4
Adawia	68,700	6,688	97.350	1,820	26.491	860	113.6
Old Cairo	110,400	<b>5</b> ,974	54.110	2,780	25.181	1,214	203 · 2
Helwan	49,500	2.290	46.262	1,033	20.868	442	193.0
<b>Ma</b> adi	46,000	2,286	49.692	2,149	31.500	545	238 · 4
TOTAL	2,266,900	113,488	50.06	48,672	21.47	29,269	178.6

Table No. 189.—Distribution of Uncertified Deaths 1950 on Cairo Districts.

		Deaths Examined by						
Distric s	Total No. of Deaths	Medical Officers	Midwives	Private Practitioners	Hospital Medical of ficers			
Qubba	1,823	304	800	716	3			
Heliopolis	1,245	118	248	581	298			
Zeitoun	2,144	276	1,164	- 698	6			
Abbassia	3,901	78	228	1,716	1,879			
Ezbekia	1,719	59	726	844	90			
Rod el Farag	3,329	166	743	2,418	. 2			
Hadayeq Shubra	2,181	47	655	1,432	47			
Shubra	2,293	52	454	1,500	287			
Sbarabia	2,158	200	1,118	616	169			
Gamalia	2,531	195	300	2,036	-			
Bab el Shaaria	1,990	98	362	1,510	20			
Abdin	. 1,268	357	569	318	94			
Mouski	. 1,157	363	295	499	_			
Darb el Abmar	2,204	880	974	409				
Khalifa	3,023	1,130	1,544	349	_			
Sayeda I	5,857	179	647	323	4,708			
" II	2,408	210	494	325	879			
Boulaq I	1,475	252	847	353	23			
,, II	1,528	282	852	393	1			
Adawia	2,753	296	1,047	128	1,282			
Old Cairo	2,712	705	1,405	602	<u>—</u> .			
Helwan	1,054	144	571	236	103			
Maadi	1,371	293	622	257	199			
Total	52,184	6,739	16,665	18,759	9,822			
Rate	12.91	31.93	30 · 94	18 · 820	.38			

Table No. 190- Infectious diseases Cases, Deathes and Rates per 1,000 of Population

Diseases	Cases	Deaths	Case Mortality Rate percent	Case-rates per 1000 of population	Death rates per 1,000 of population
Typhoid Typhus Diphtheria Chicken pox Small pox Measles Meningitis Scarlet fever Whooping cough Mumps Rabies Tetanus Peurperal fever Relapsing fever Dysentery Tuberculosis Influenza Erysipelas. Malaria Broncho pneumonia	3,711 32 530 731 1 585 1,274 10 134 534 1,157 58 133 57 179 3,583 2,777 301 507 1,715	$egin{array}{c} 359 \\ 2 \\ 117 \\ 11 \\ - \\ 230 \\ 167 \\ - \\ 13 \\ - \\ 7 \\ 30 \\ 22 \\ - \\ 78 \\ 1,683 \\ 9 \\ 13 \\ 1 \\ 1,152 \\ \end{array}$	$ \begin{array}{c} \cdot 92 \\ 6 \cdot 25 \\ 22 \cdot 07 \\ 1 \cdot 54 \\$	$9 \cdot 72$ $\cdot 01$ $\cdot 23$ $\cdot 434$ $\cdot 004$ $\cdot 25$ $\cdot 56$ $\cdot 004$ $\cdot 05$ $\cdot 23$ $\cdot 51$ $\cdot 02$ $\cdot 05$ $\cdot 02$ $\cdot 07$ $\cdot 58$ $\cdot 22$ $\cdot 13$ $\cdot 22$ $\cdot 75$	•15 •0008 •05 •004 — •102 •07 •0004 •005 — •003 •01 •009 — •03 •74 •003 •004 •0004 •508
Lobar ,,	446	263	58.82	•19	·11
Total	18,455	4, 157	22.52	8.09	1 · 83

TABLE No. 191.—DISTRIOT DISTRIBUTION OF THE PRINCIPAL INFECTIOUS DISEASES, 1950

Qubba         Operation         Perpetition         Constitute         Constitut			Small-pox		Cerebro Spinal	Spinal	Typhus fever	90	Typhoid	bid	Soariet		Diphtheria	eria	Measles	80	To	TOTAL
18   18   18   18   18   18   18   18	Qisms	Population	2986D	Desths	asas:	Безійв	вэв 🗗	Deaths	*ssaD	edtse Ü	#9##O	sd1seC	ваваО	Desths	1988D	ватря	еовяО	Веверв
18   18   18   18   18   18   18   18					69	10	0		911	1			06		93	1	6	770
a         87,500         -         122         4         2         1         133         14         -         17         55         13           Farag         -	•	•	1	1	100	) C	0 -		164	- T	10		000	# ₹	67	67.	9000	# >= ድ 61
a		87,500	1		201	OT V	7 0	1	133	17	5		170	H 7C	86	9.7	910	3 10
Ferrag	ct.	133 000			70	4 JC	4 60	<b>-</b> -	390	4 75 4 75			1 70	- F	20 65	- T	2 MG	6
Farag          183,700         —         100         9         2         —         380         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         1         —         25         3         —         21         —         25         3         —         25         3         —         22         3         —         22         3         1         —         22         3         —         24         3         —         24         3         —         24         3         —         24         3         —         24         3         —         24         3         —         24         3         —         24         3         —         24 </td <td></td> <td>107,900</td> <td></td> <td></td> <td>72</td> <td> 0.</td> <td>) m</td> <td>1</td> <td>148</td> <td>12</td> <td></td> <td>1</td> <td>200</td> <td>2 67</td> <td>12</td> <td>ا يد</td> <td>6000</td> <td>000</td>		107,900			72	 0.	) m	1	148	12		1	200	2 67	12	ا يد	6000	000
q Shubra.       89.000       41       2       1       42       31       -       25       3       11         a         121,400       -       47       4       1       -       42       31       -       213       15       -       90       9       1         a               90       9       9        223       17        22       3         22       3	Tarag	183,700	ı		100	0.00	2	1	380	32	1	1	34		47	18	565	20
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	q Shubra	89.000	1	1	41	7	proof	1	194	10		1	25	က	15	23	276	2011
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		^		1	47	4		I	42	3	-	Ì	33	11	42	233	991	2.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		•	1	1	29	1-	က		213	201	1	İ	06	0	103	56	1000	30 30
Shaaria	•	^	1	1	88	10	েয	.	223	L-1	<del></del>		22	ಣ	37	ಣ	300	10 00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Shaaria	•	1	1	63	00	ಣ	- [	216	27	į	1	53	9	42	ಣ	353	4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		•	ı	1	52	6		1	127	10	1	-	24	10	13	$\infty$	50	32
Ahmar 114,300	•	77,600	port	1	38	10	pred	-	112	П	provid	ľ	91	ಣ	18	<u></u>	188	56
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	114,300	1	1	65	14	က	1	159	14	1		31	က	- C	ಣ	50	60 44
II $108,500$ $ 54$ $16$ $1$ $142$ $12$ $ 28$ $9$ III $99,500$ $ 43$ $5$ $2$ $173$ $10$ $2$ $22$ $5$ $1$ $10$ $16$ $16$ $10$ $10$ $10$ $10$ $10$ $10$ $110,400$		124,900	1	1	57	00	-	1	212	22	1	ı	2)	67	15	70	\$5 \$5 \$5	62
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		108,500	1	1	54	16	П	1	142	12	1.		28	6	<del>س</del> ا	67	238	39
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		99,500	1	1	43	70	2	1	173	10	7		- 55	<del>س</del>	13	_	9000	25
II $75,500$ — $-$ 50 3 — $-$ 94 8 — $-$ 16 4	•	000,39	1	1	42	12	1	1	86	7	1	1	91	4	71	$\infty$	170	C2 
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	75,500	1	1	50	ಣ	1	1	94	00	1	1	91	4	13	0	100 5.00 0.00	57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		68,700	Į.	1	42	20	1	1	108	L-	1	1	77	9	91	o,	180	22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•		1	1	36	5	1	1	160	10		-	21	ಹ	4:2	30	260	50
46,000 - $22$ - $1$ $49$ $3$ - $4$		~		1	10	2		-	32	ಣ	1	number :	က	-	∞	1	48	10
		*	1	1	22	1			49	ಣ		1	4	1	7	-	30	4
The state of the s																		
		000	,						3	1	,		6	3	à	000	9	à
LOIAL 2,266,900 I - 1,274 167 32 2 3,711 359 10 - 530 117 585	LOIAL	2,266,900	-	1	,274	167	6? 66		Z.m.	0 0 0 0 0	<b>2</b>		0220		1000 1000 1000 1000 1000 1000 1000 100	230	6,145	100 200 200

TABLE NO. 192.— DISTRICT DISTRIBUTION OF TYPHOID FEVER CASES AND DEATHS, 1957.

District	Mid-year Population	Number of Cases	Case-rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate per cent
Qubba	91,000	211	•431	15	·164	7.109
Heliopolis	90,600	164	1.810	14	154	8:536
Zeitoun	87,500	133	.152	14	•16	10:526
Abbassia	1 <b>3</b> 3,000	320	2:406	55	.413	17:156
Ezbekia	107,900	148	1.371	12	·111	8.108
Rod-el-Farag	183,700	380	2.068	32	.174	8.042
Hadayeq Shubra	8),000	191	$2 \cdot 179$	10	•116	5 · 154
Shubra	121,400	42	.345	31	•255	73.809
Sharalia	77,000	213	2 766	15	•194	7 . 142
Gamalia	118,000	223	1 889	17	.144	7.623
Bab-el-Shaaria	131,600	2 16	1.641	27	2 5	12:5
Abdin	93,300	127	1 361	10	·107	7.874
Mouski	77,600	112	1 · 443	11	· 141	9.821
Darb-el-Ahmar	114,300	159	1.391	14	$\cdot 122$	8.918
Khalifa	124,900	213	$1 \cdot 705$	22	·176	10.328
Sayeda I	103,500	142	1::69	12	·110	8.450
Sayeda II	99,500	173	1 738	10	·10)	<b>5</b> ·780
Boulaq I	68,000	98	1.441	7	102	7 - 142
Boulaq II	75,500	94	1 · 245	8	. 105	8.5/0
Adawia	68,700	108	1.572	7	· 101	6.481
Old Cairo	110,400	160	1.449	10	. 90	6.250
Helwan	49,500	32	.646	3	.80	9.375
Maadi	46,000	49	1.065	3	.65	6.122
TOTAL	2,266,900	3,711	1 · 637	359	. 128	9 183

Table No. 193.- District Distribution of Typhus cases and Deaths, 1950

District	Population	Number of Cases	Case rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate percent
Qubba	91 000	3	032			
11 12 12	90 600	1	011			
77 '	87.500 87.500	$\frac{1}{2}$	022	1	.011	50
471	13 , 000	$\frac{2}{3}$	$\begin{bmatrix} 022 \\ 022 \end{bmatrix}$	1	$\cdot 007$	33.33
77 1 -1-:	107,900	1	.00)			
2) 1 1 22	183,700	$\frac{1}{2}$	.010	de a Visional		
Hedayeq Shulra	89,000	1	.011			Photosom #
(1)	121,400	1	008			
COL	77,000	3	.008			
0 1'	118.000	$\frac{3}{2}$	. 006			
Bab el-Shaaria	131,600	3	$\cdot (22)$			
A1. 3:	93,300	1	.010			
Manual:	77,600	1	$\cdot 012$			
Darb-el-Ahmar	114,300	3	0.026		_	
Khalifa	121,900	1	020		_ ′	
Sayeda I	108,500	i	$\cdot 603$	_		
Sayeda II	99,500	2	$\cdot 020$ .			
Boulag I	68,000					
Boulaq II	75,500					
Adawia	68,700			_		
Old Cairo	110,400					
Helwan	49,500					
Maadi	46,000	1	$\cdot_{021}$		_	
I'r Catovil	10,000		021			
TOTAL	2,266,900	32	.014	2	0.008	6 · 25

TABLE NO. 194.—DISTRICT DISTRIBUTION OF DIPHTHERIA CASES AND DEATHS, 1950.

District	Population	Number of Cuses	Case-rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate per cent
2.11	01.000	90	.010	4	0.0	
Qubba	91,000	20	219	$\begin{bmatrix} 4 \\ 4 \end{bmatrix}$	.0.3	20.
Heliopolis	90,600	20	220	5	014	20.
Zeitoun	87,500	17	194		051	29.41
Abbassia	133,000	55	411	13	096	23.60
Ezbekia	107,900	20	1.5	$\frac{2}{1}$	018	10.
Rod-el-Farag	183 700	. 34	185	$\frac{11}{2}$	059	$32 \cdot 32$
Hadayeq Shubra	89.000	25	<b>'28</b> 0 ·	3	.033	12 ·
Shubra	121,400	33	271	11	.(90	33 33
Sharabia	77,000	40	.519	9	'116	$22 \cdot 50$
Gamalia	118,000	22	· 186	3	025	$13 \cdot 63$
Bab-el-Shaaria	131,600	29	220	$\frac{6}{2}$	.044	20.68
Abdin	93,300	21	• 2 • 7	5	053	20.83
Mouski	77,600	16	-206	3	038	18.75
Darb-el-Ahmar	114 360	31	•271	3	. 026	$9 \cdot 67$
Khalifa	$124,9^{\circ}0$	20	.160	2	.010	10.00
Sayeda I	108,500	28	• 258	9	.090	$32 \cdot 14$
Sayeda II	99,500	22	•521	5	•(150	$22 \cdot 72$
Boulag I	68 000	16	· 235	4	.028	$25 \cdot 00$
Boulag II	75 500	16	.213	4	.053	$25 \cdot 00$
Adawia	68 700	14	• 200	6	085	$42 \cdot 85$
Old Cairo	110,400	21	•190	5	.045	23.80
Helwan	409.500	3	.080			
Maadi	46,000	4	.086	-		9000.00
Total	2 266,960	530	· <b>23</b> 3	117	.051	22,04

Table No. 195.—District Distribution of Measles Cases and Deaths, 195.

District .	Population	Number of Cases	Case-rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate per cent
0.11	91,000	23	· <b>25</b> 2		gh-m-d-dellika	speldagines
Qubba	90,600	6	.066	3	.033	50.
Heliopolis	87,500	28	$\cdot 032$	27	•308	96.43
Zeitoun	133,000	33	•248	7	.052	21.21
Abbassia	107 900	12	111	5	.046	41.66
Ezbekia	183,700	49	$\cdot 266$	18	.097	36.73
Rod-el-Farag	89.000	15	168	$\frac{1}{2}$	$\cdot 022$	13'33
Hadayeq Shubra Shubra	121,400	43	•354	23	·189	53.48
01 1	77,000	103	•337	54	•701	$52 \cdot 42$
O 11	118,000	37	•313	5	•042	13.51
D 1 1 01	131,600	42	•319	3	· 0 <b>2</b> 2	7.14
Abdin	93,300	$\overline{13}$	•139	8	•085	61.53
Mouski	77,600	19	.244	7	•090	36'84
Darb-el-Ahmar	114,300	13	•113	3	•026	2 <b>3</b> ·07
Khalifa	124,900	25	•200	. 5	•040	20.00
Sayeda I	108,500	13	•119	2	•018	15.38
Sayeda II	99,500	13	•130	1	•010	7.69
Boulag I	68,000	17	•25	8	•117	47.05
Boulag II	75,500	13	•170	9	•119	69.23
Adawia	68,700	16	.232	9	•131	56.25
Old Cairo	110,400	42	•380	30	.271	71.42
Helwan	49,000	8	•161			
Maadi	46,000	2	•043	1	•021	50.00
Total	2 266,900	585	.258	230	·101	39.31

Table No. 196.— District Distribution of Cerebro Sfinal fever Cases and Deaths, 1950.

District	Population	Number of Cases	Case rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate per cent
Qubba	91,000	62	•681	=		
Heliopolis	90,600	102	$1 \cdot 125$	5	054	8,06
77 .: 1	87,500	32	365	10	:110	9,80
Allenda	133,000	94	•706	4	.045	12'5
771 7 .1.1.	107,900	72	667	15	112	15.95
TO 7 1 77	183,700	100		9	.083	12.5
Hodayeq Shubra	89,000	41	.543 '460	9	•049	9.00
Ohashan	121,400	47		2	.022	4'87
C1 -1.	77,000	67	•387	4	.032	8'51
C 11	118,000	88	*870	7	.090	10.44
The second second	131,600	63	.745	10	.084	11'36
Bab-el-Shaaria	<b>93,</b> 300	52	•478	8	.060	12'69
Abdin	•		.557	9	.096	17.30
Mouski	77,600	38	•489	5	.064	13'15
Darb-el-Ahmar	114,300	65	• 568	14	•122	21.53
Khalifa	124,900	57	•546	8	.064	14.03
Sayeda I	108,500	54	•479	16	·147	29.62
Sayeda II	99,500	43	•432	5	.050	11.62
Boulaq I	68,000	42	•617	12	176	28.57
Boulaq II	75,500	42	•611	5	.072	11.90
Adawia	68,700	50	662	3	.039	6.00
Old Cairo	110.400	36	.326	5	.045	13.88
Helwan	49,500	5	•101	2	.040	40.00
Maadi	<b>46.</b> 000	. 22	•478	-		_
Total	2,266,900	1,274	•562	167	• 078	13'11

TABLE No. 197. —DISTRICT DISTRIBUTION OF SCARFET FEVER CASES AND DEATHS 1950

District	Population	Number of Cases	Case-rate per 1000 of Population	Number of Deaths	Death-rate per 1000 of Population	Case mortality rate per cent
Qubba Heliopolis Zeitoun Abbassia Ezbekia Rod-el-Farag Hodayeq Shubra Sharabia Gamalia Bab-el-Shaaria Abdin Mouski Darb-el-Ahmar Khalifa Sayeda I Sayeda II Boulaq I Boulaq I Boulaq II Adawia Old Cairo Helwan Maadi	91,000 90,600 87,500 133,000 107,900 183,700 89,000 121,400 77,000 118,000 131,600 93,300 77,600 114,300 124,900 108,500 99,500 68,000 75,500 68,700 110,400 49,500 46,000	- 5 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-·055·008·001·020·009			
TOTAL	2,26€,900	10	.004	_	_	_

Printed at the Government Press, Cairo,
HASSAN ALI KLEWA,
Director.

